

Figure 2-1. Areas Closed Year-round to Bottom Trawling

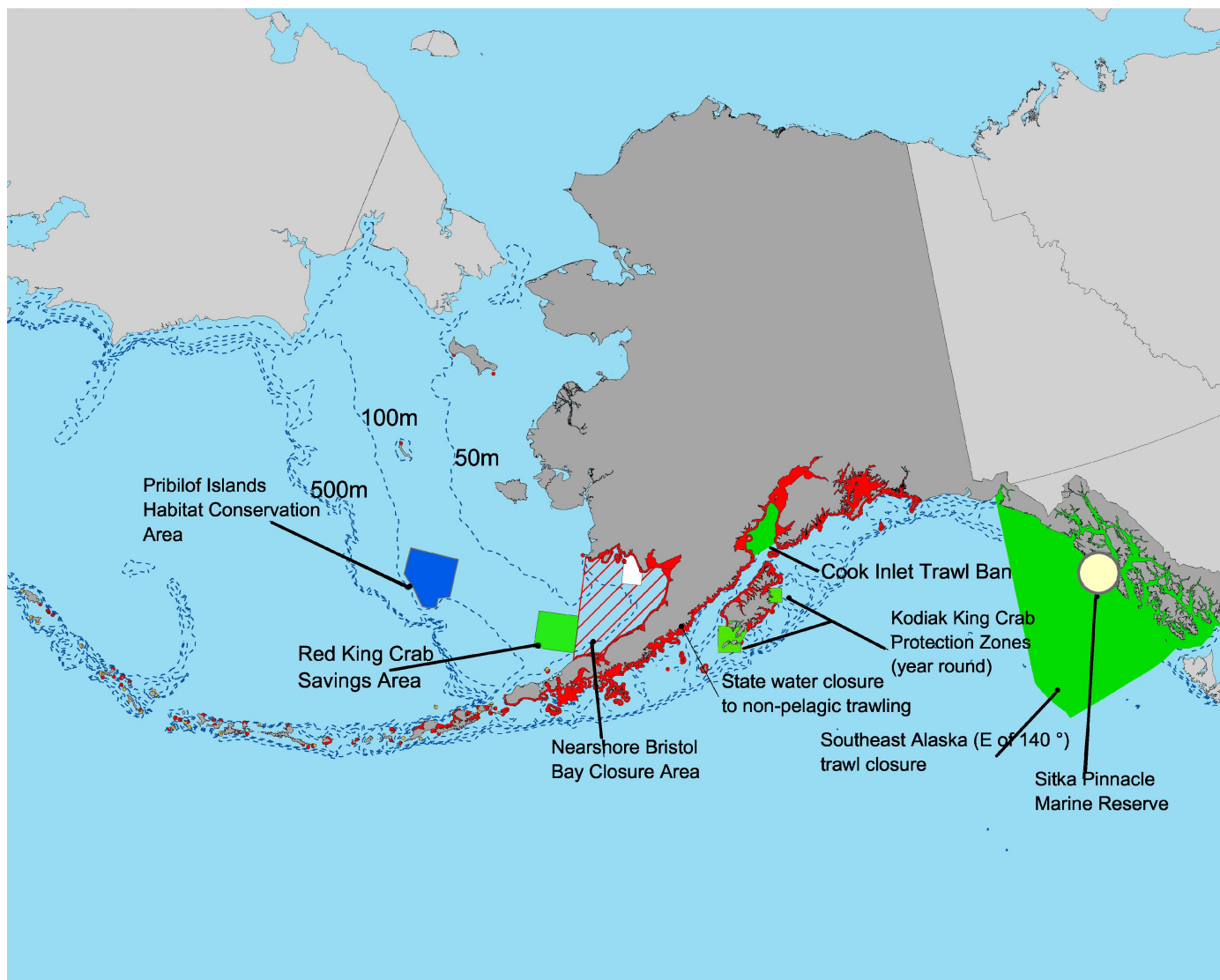


Figure 2-2. State of Alaska's Catalog of Waters Regions

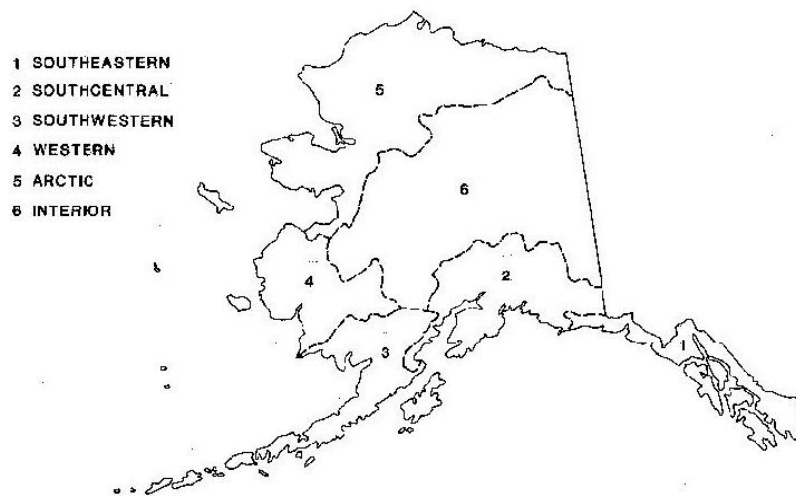


Figure 2-3. Alternative 2: Essential Fish Habitat for GOA Late Juvenile and Adult Pacific Ocean Perch

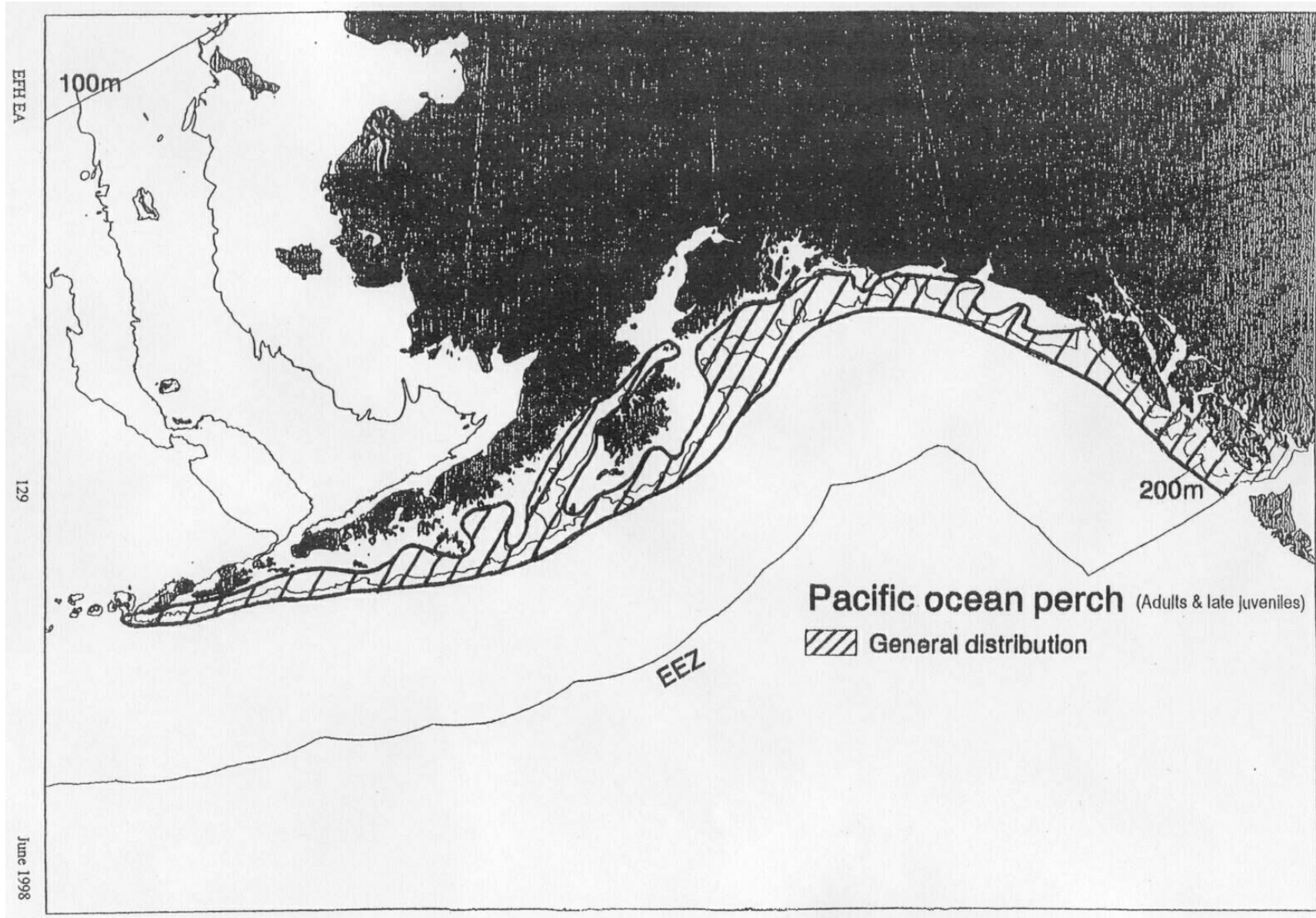


Figure 2-4. Alternative 2: Essential Fish Habitat for Late Juvenile and Adult Pacific Cod

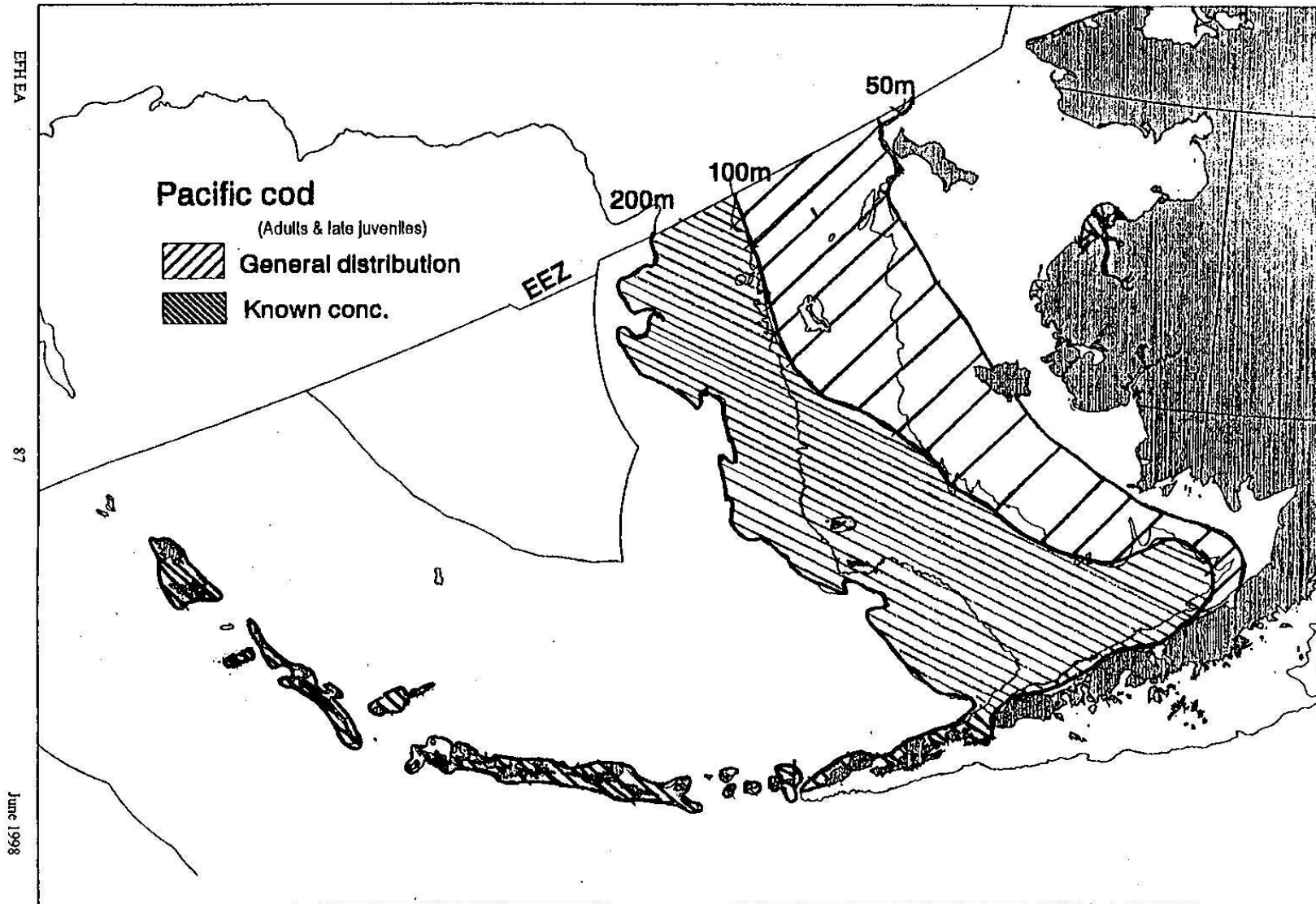


Figure 2-5. Alternative 2: Essential Fish Habitat for Golden King Crab Eggs

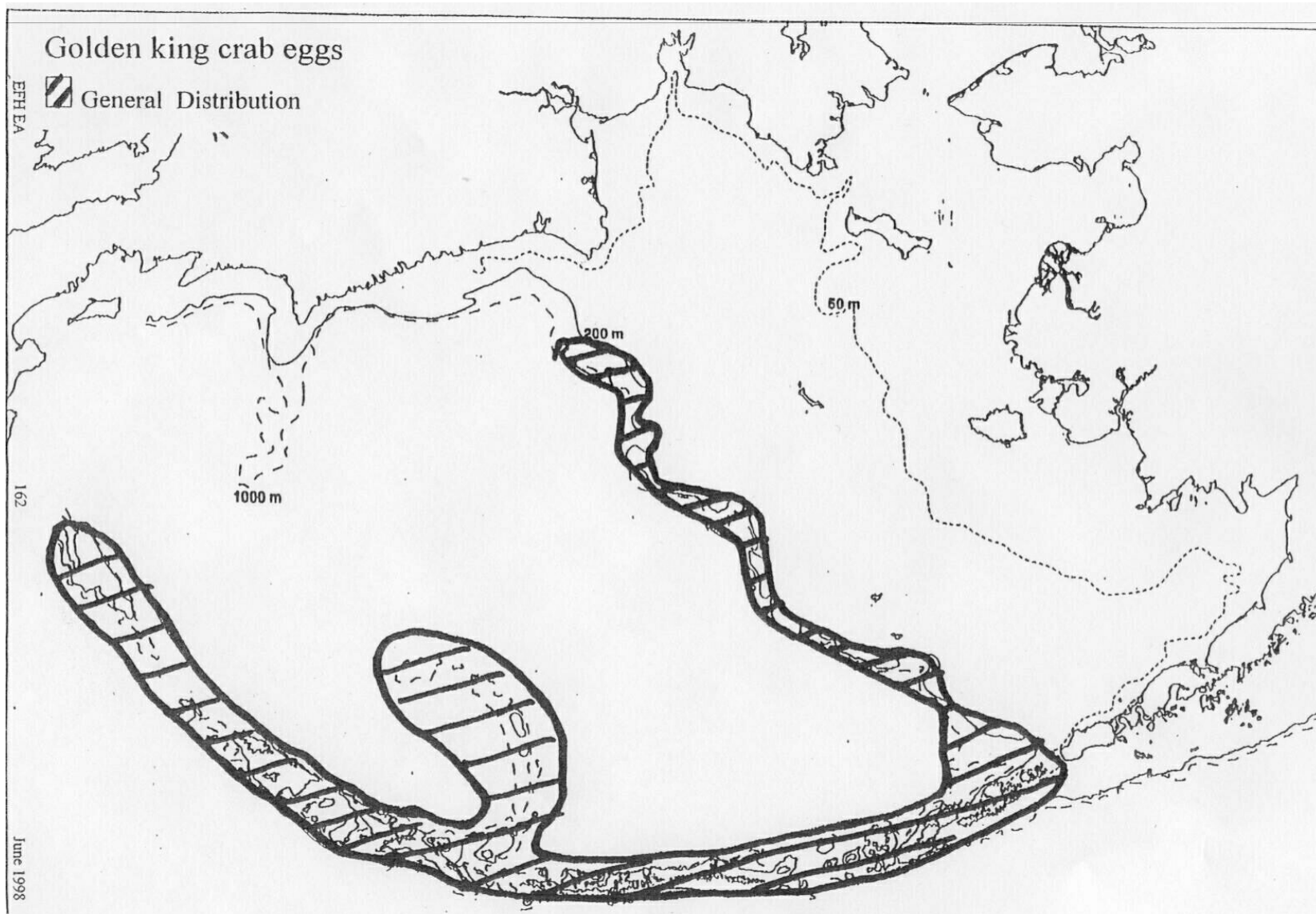


Figure 2-6. Alternative 2: Essential Fish Habitat for Mature and Late Juvenile Golden King Crab

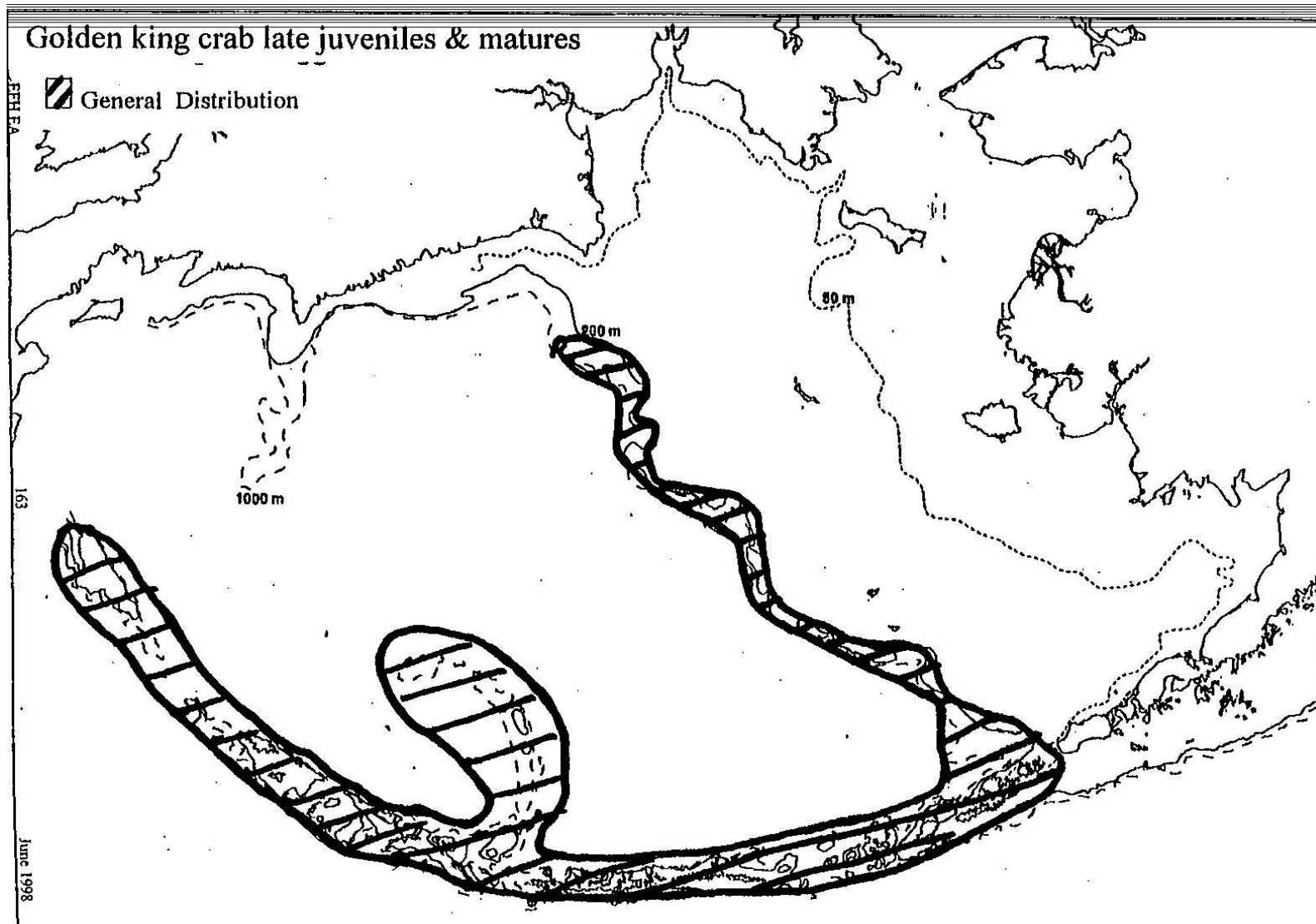


Figure 2-7. Alternative 2: Essential Fish Habitat for GOA Adult and Late Juvenile Weathervane Scallops

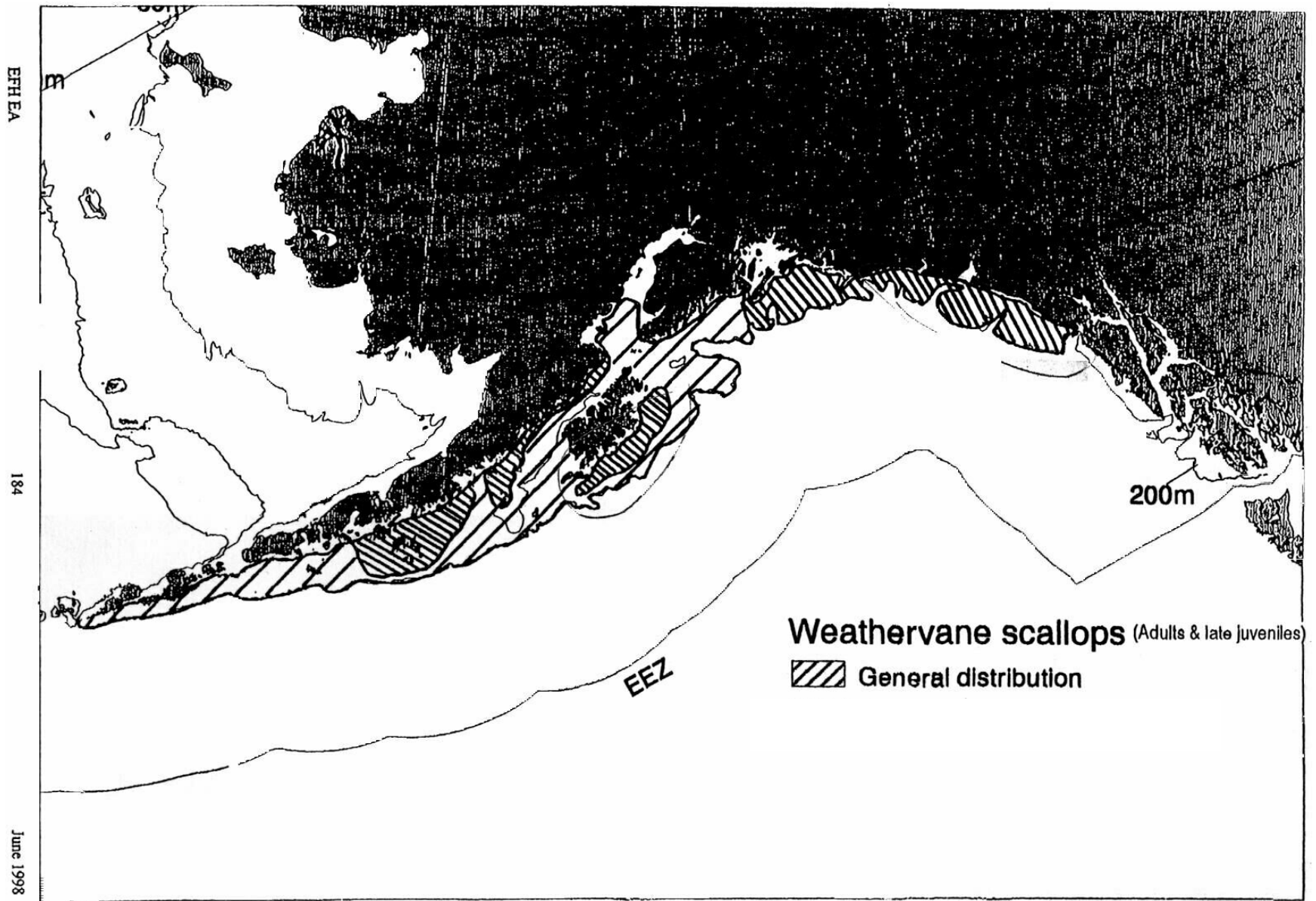


Figure 2-8. Alternative 2: Essential Fish Habitat for BSAI Adult and Late Juvenile Weathervane Scallops

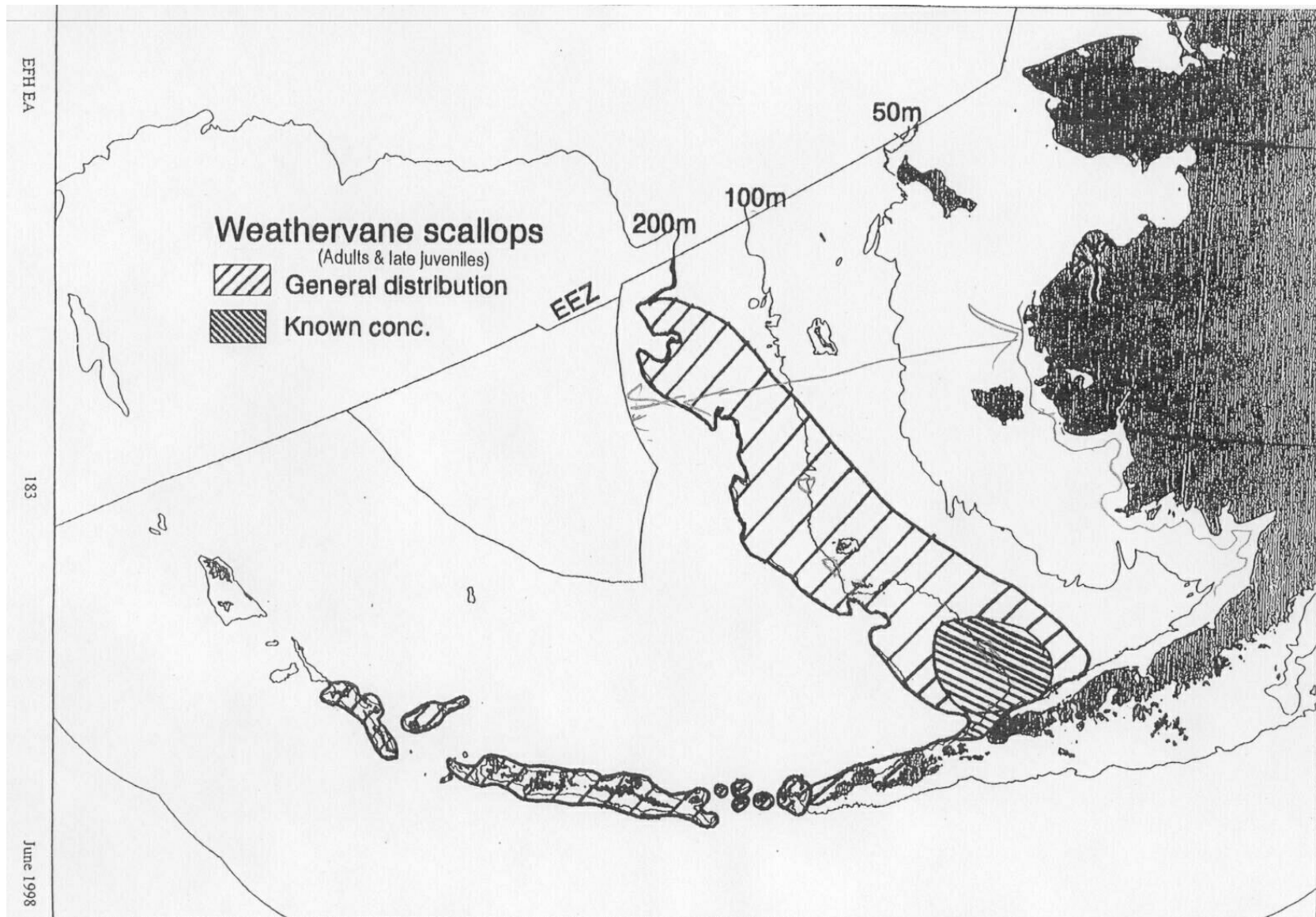
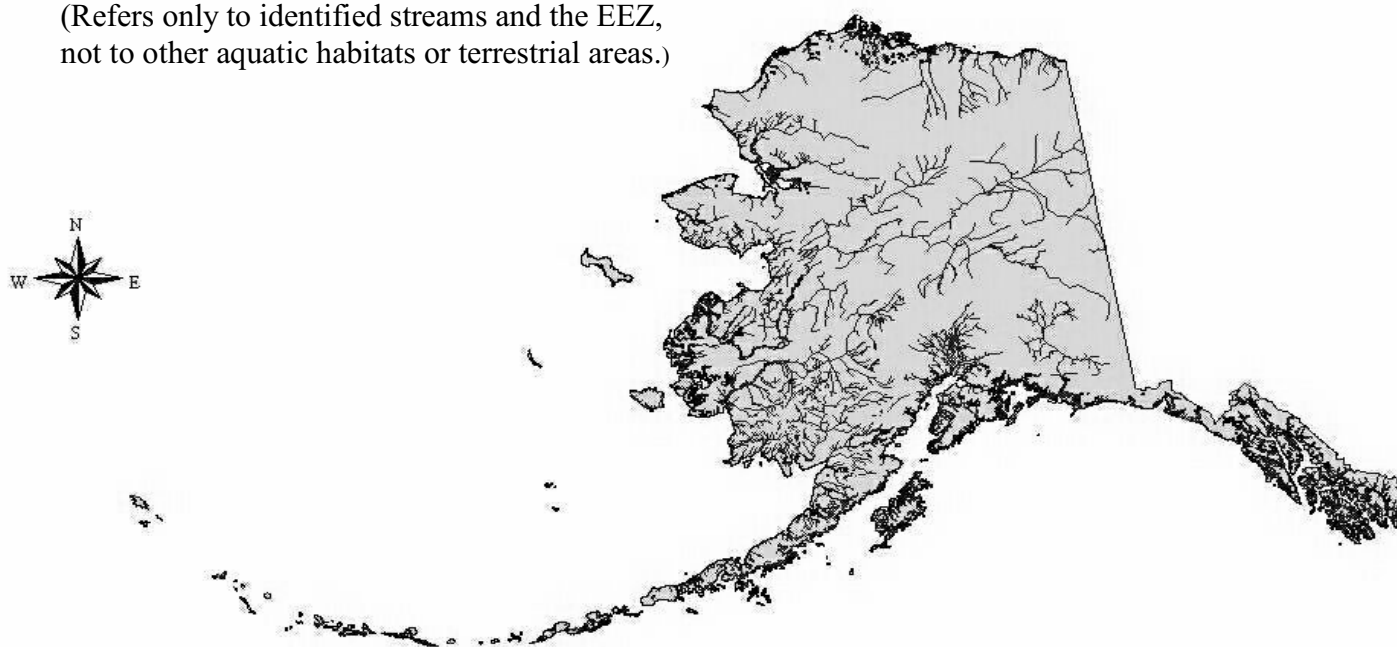


Figure 2-9. Alternative 2: Essential Fish Habitat for Freshwater Salmon in Alaska

**General Distribution of Eggs and Larvae,
Freshwater Juvenile and Adult Chinook, Chum,
Coho, Pink, and Sockeye Salmon**

(Refers only to identified streams and the EEZ,
not to other aquatic habitats or terrestrial areas.)



Source: EFH EA, June 1998

Figure 2-10. Alternative 3: Essential Fish Habitat for GOA Late Juvenile and Adult Pacific Ocean Perch

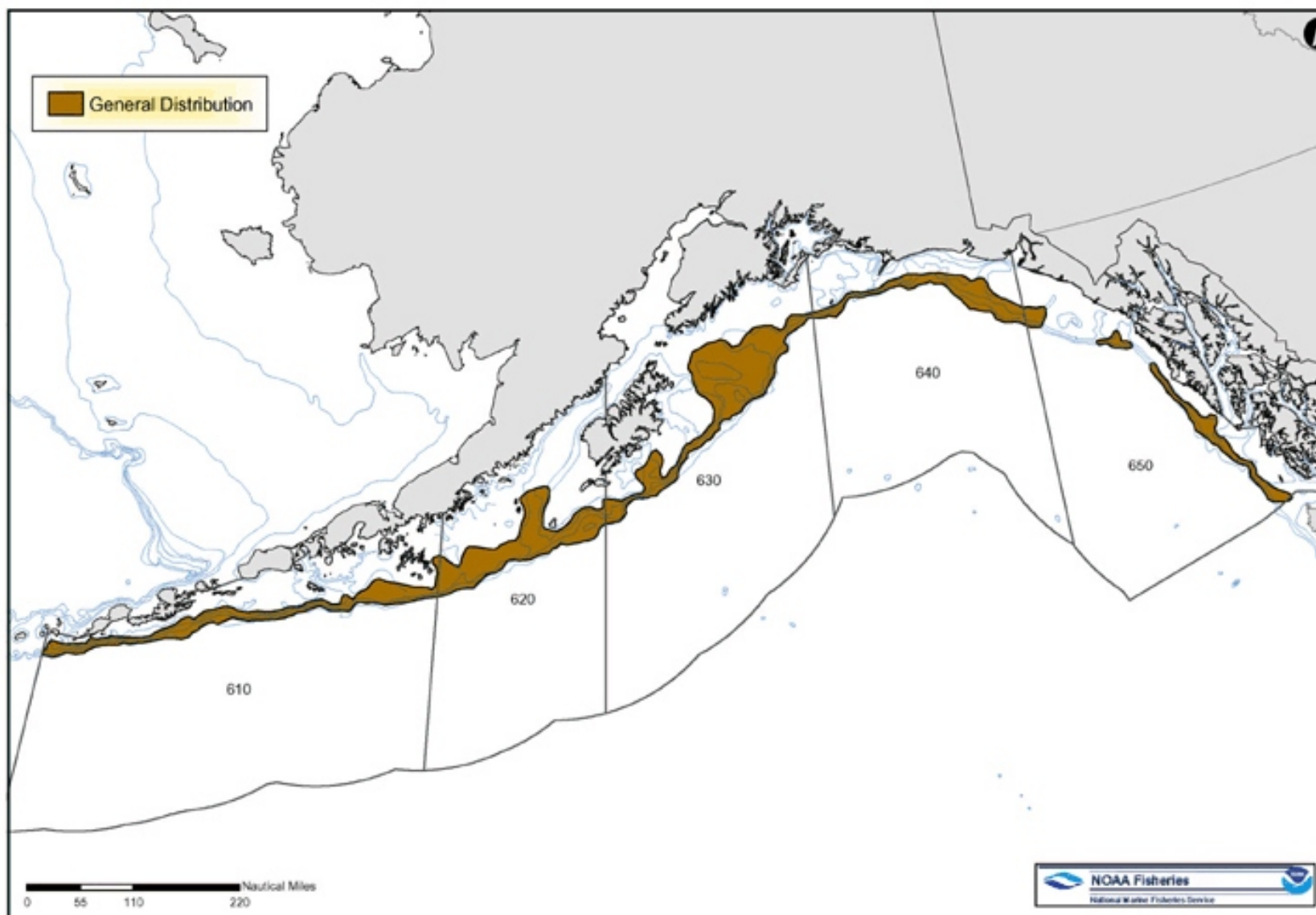


Figure 2-11. Alternative 3: Essential Fish Habitat for BSAI Late Juvenile and Adult Pacific Cod

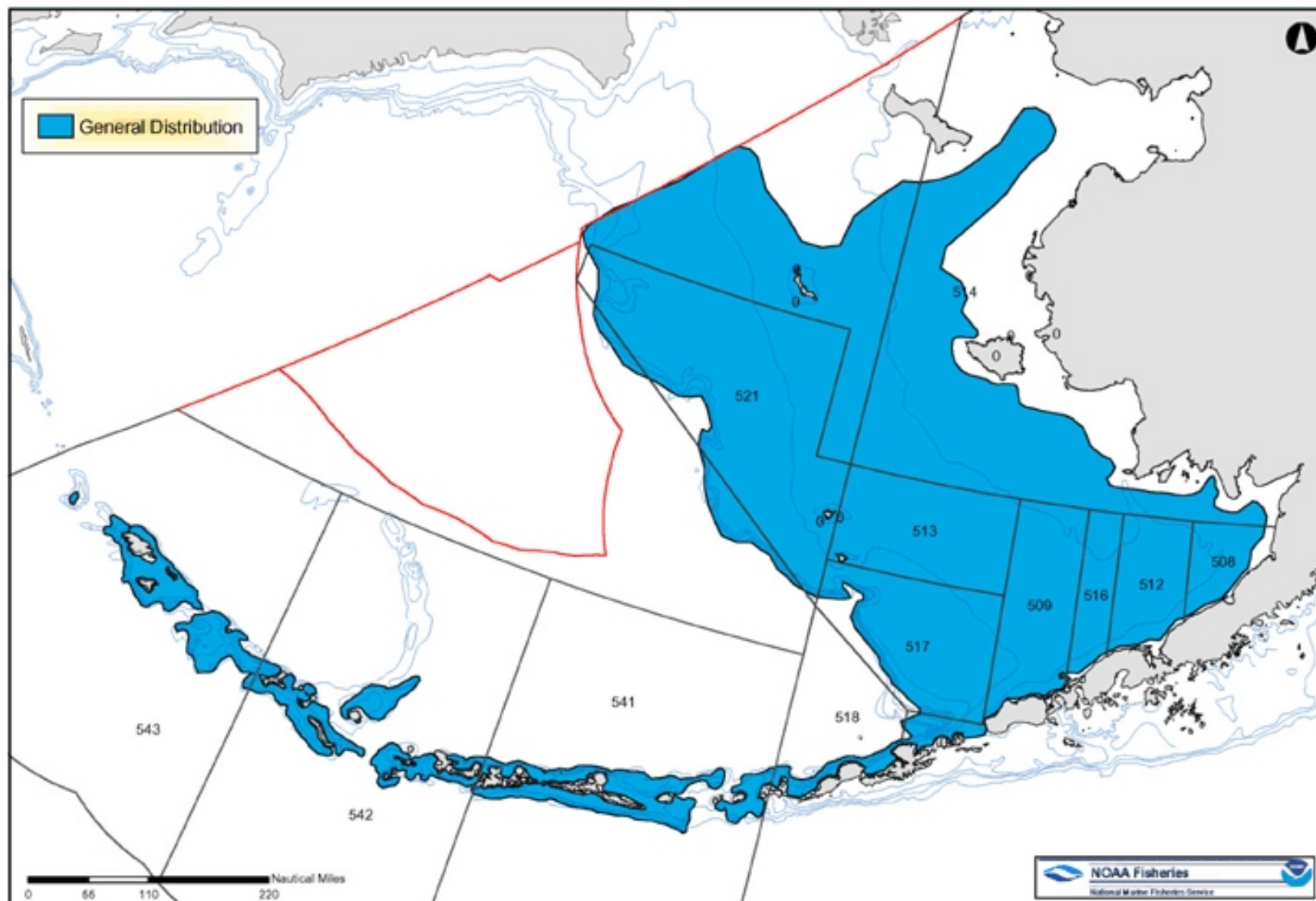


Figure 2-12. Alternative 3: Essential Fish Habitat for BSAI Golden King Crab

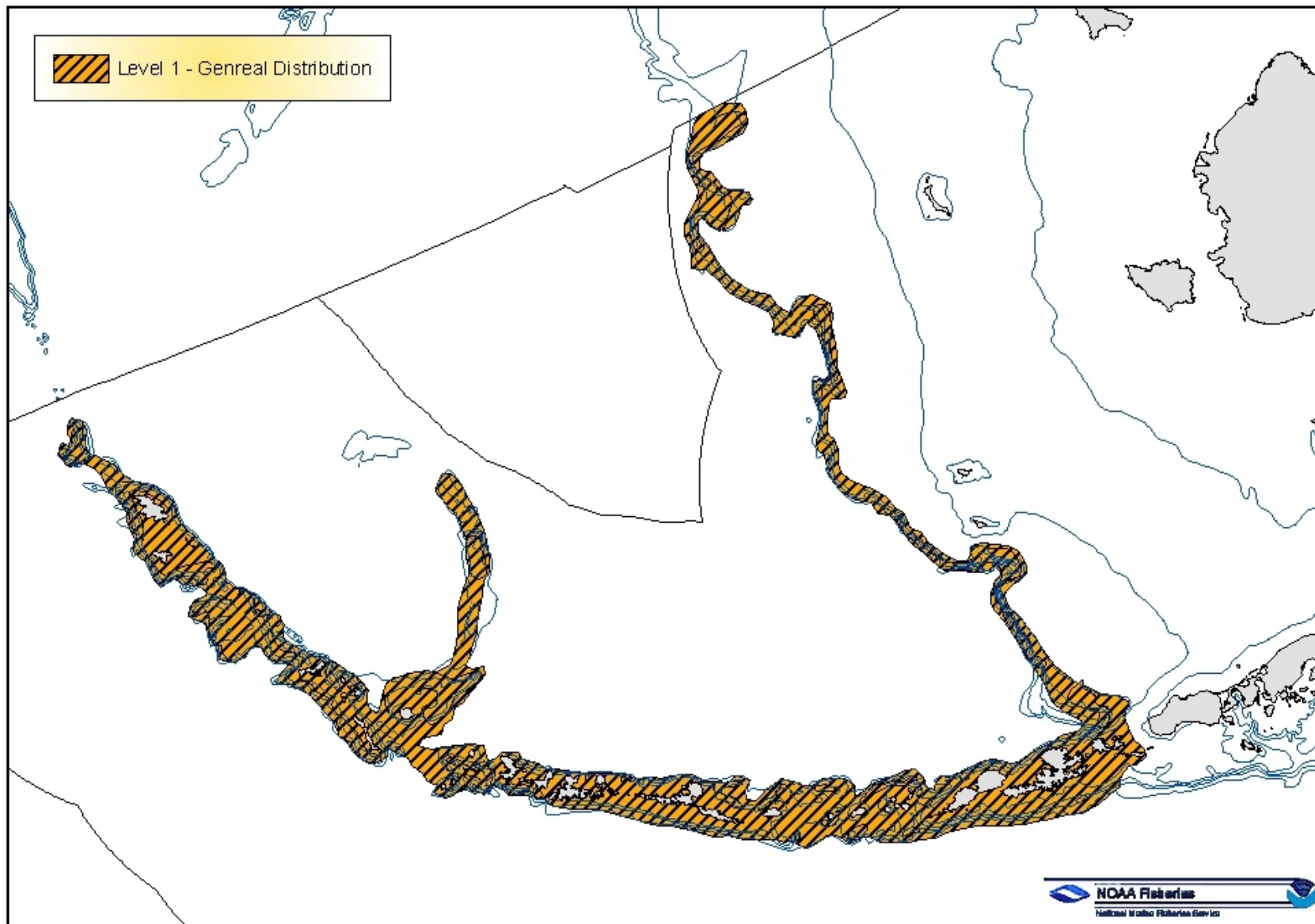


Figure 2-13. Alternative 3: Essential Fish Habitat for Weathervane Scallops

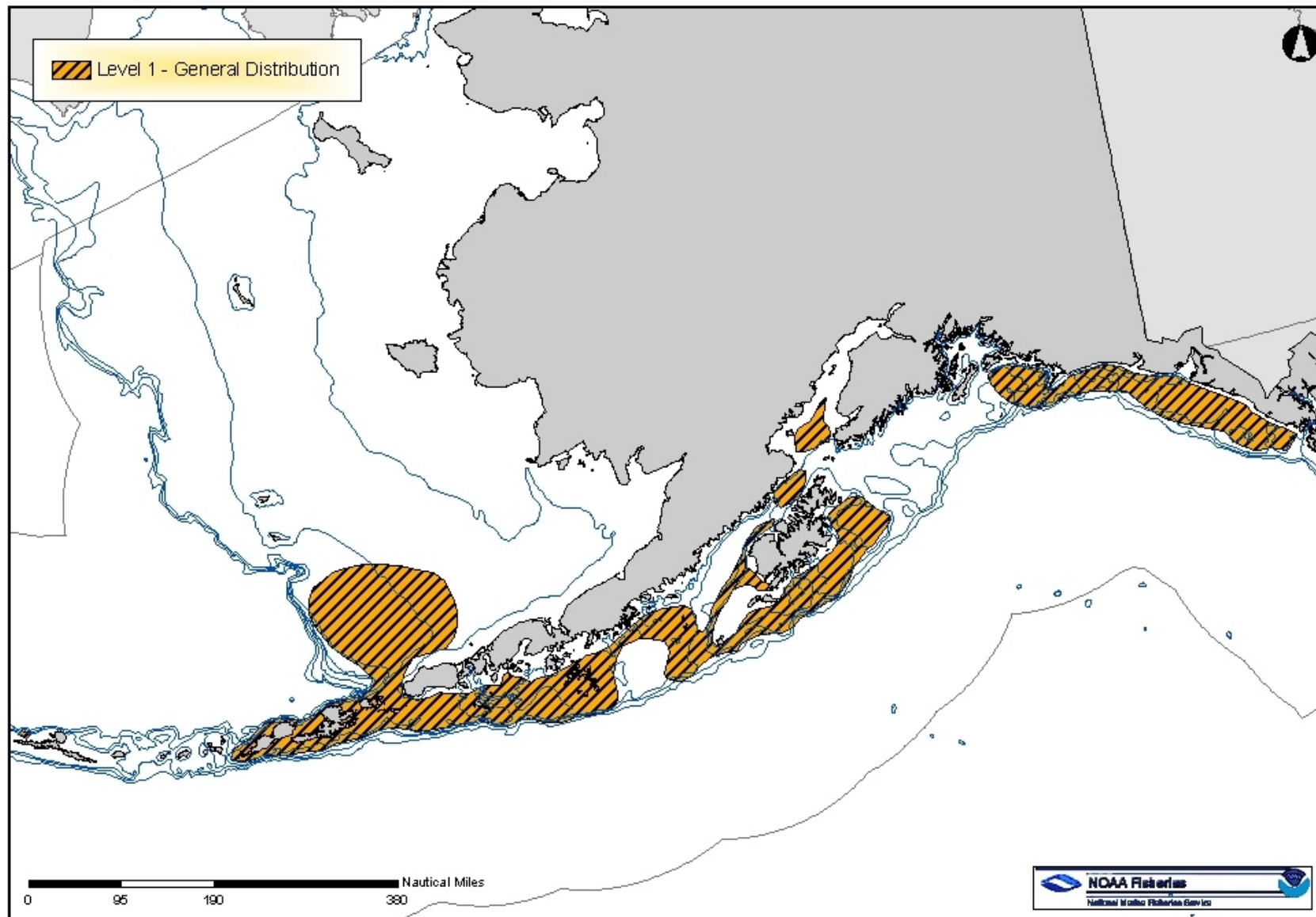


Figure 2-14. Alternative 3: Essential Fish Habitat for Freshwater Chinook Salmon

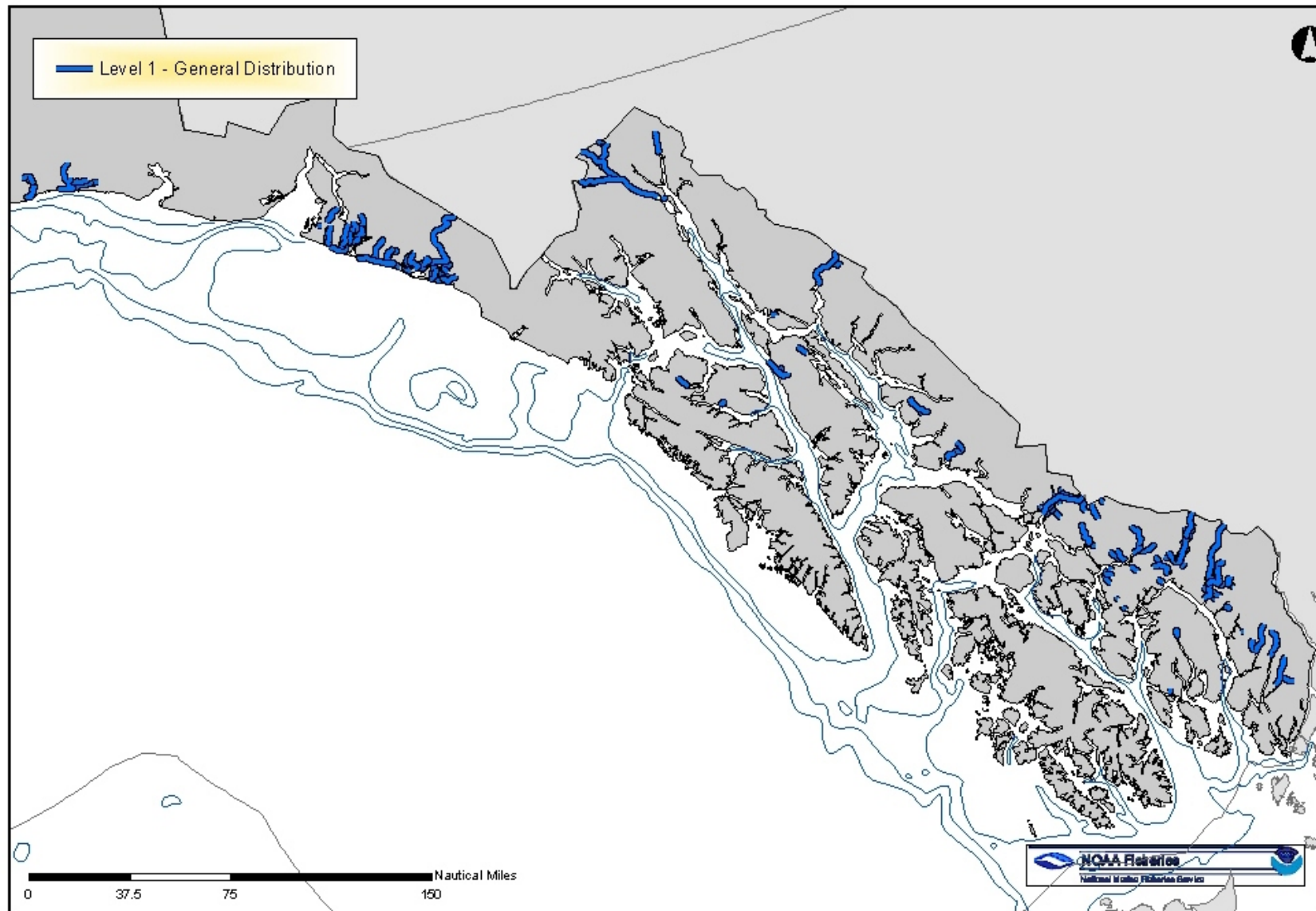


Figure 2-15. Alternative 3: Essential Fish Habitat for Marine Chinook Salmon

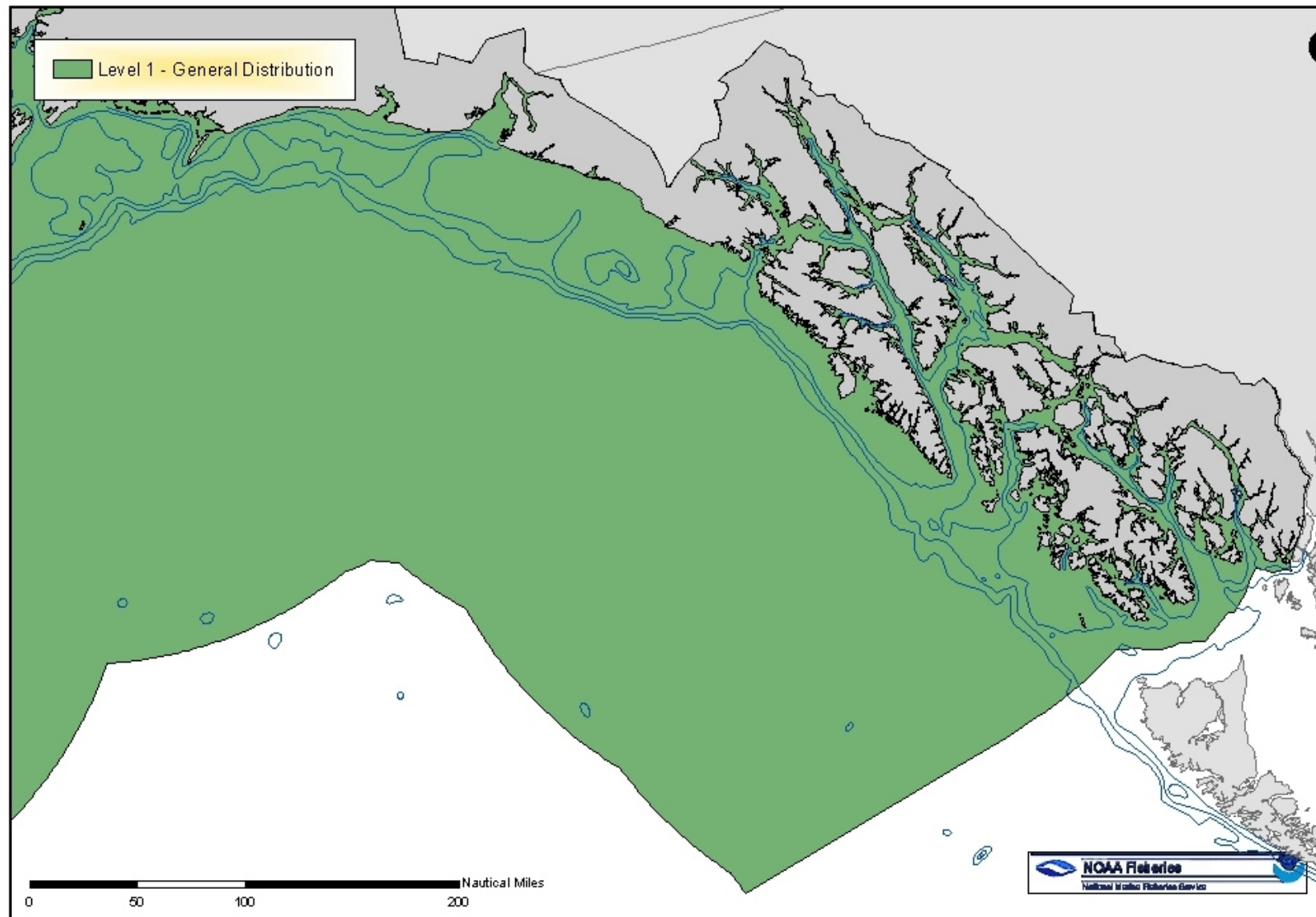


Figure 2-16. Alternative 4: Essential Fish Habitat for GOA Pacific Ocean Perch

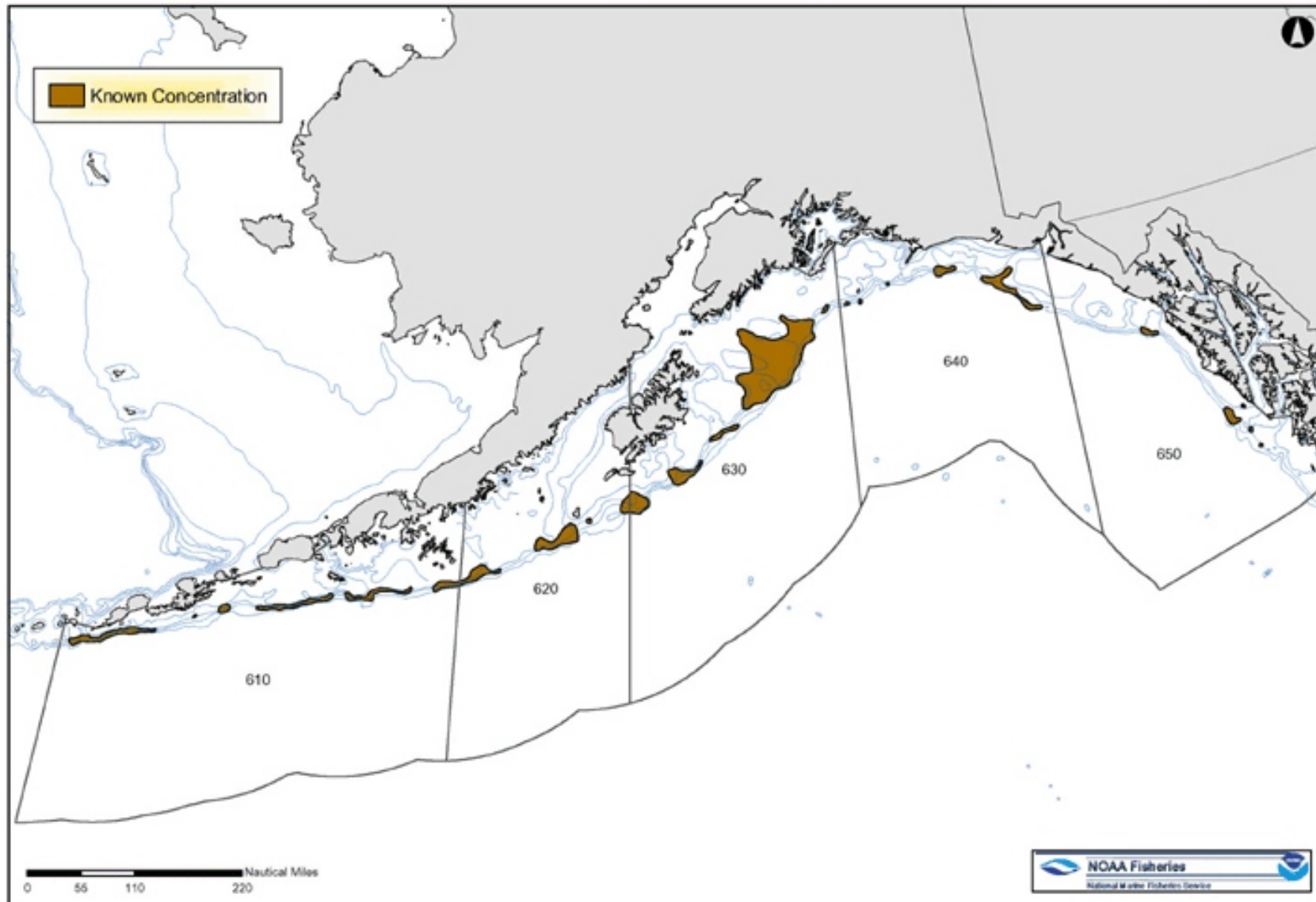


Figure 2-17. Alternative 4: Essential Fish Habitat for Late Juvenile and Adult Pacific Cod

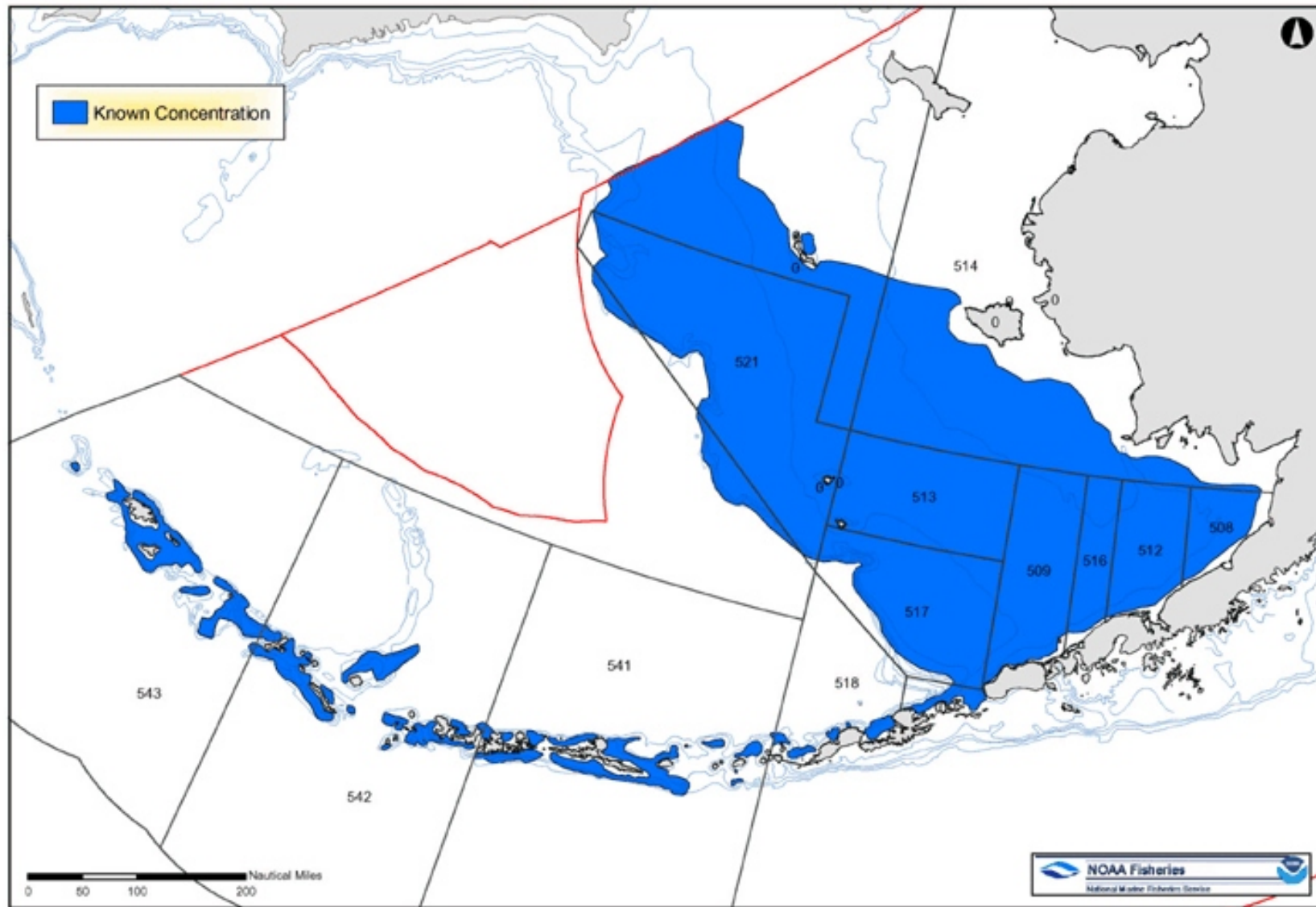


Figure 2-18. Alternative 4: Essential Fish Habitat for BSAI Golden King Crab

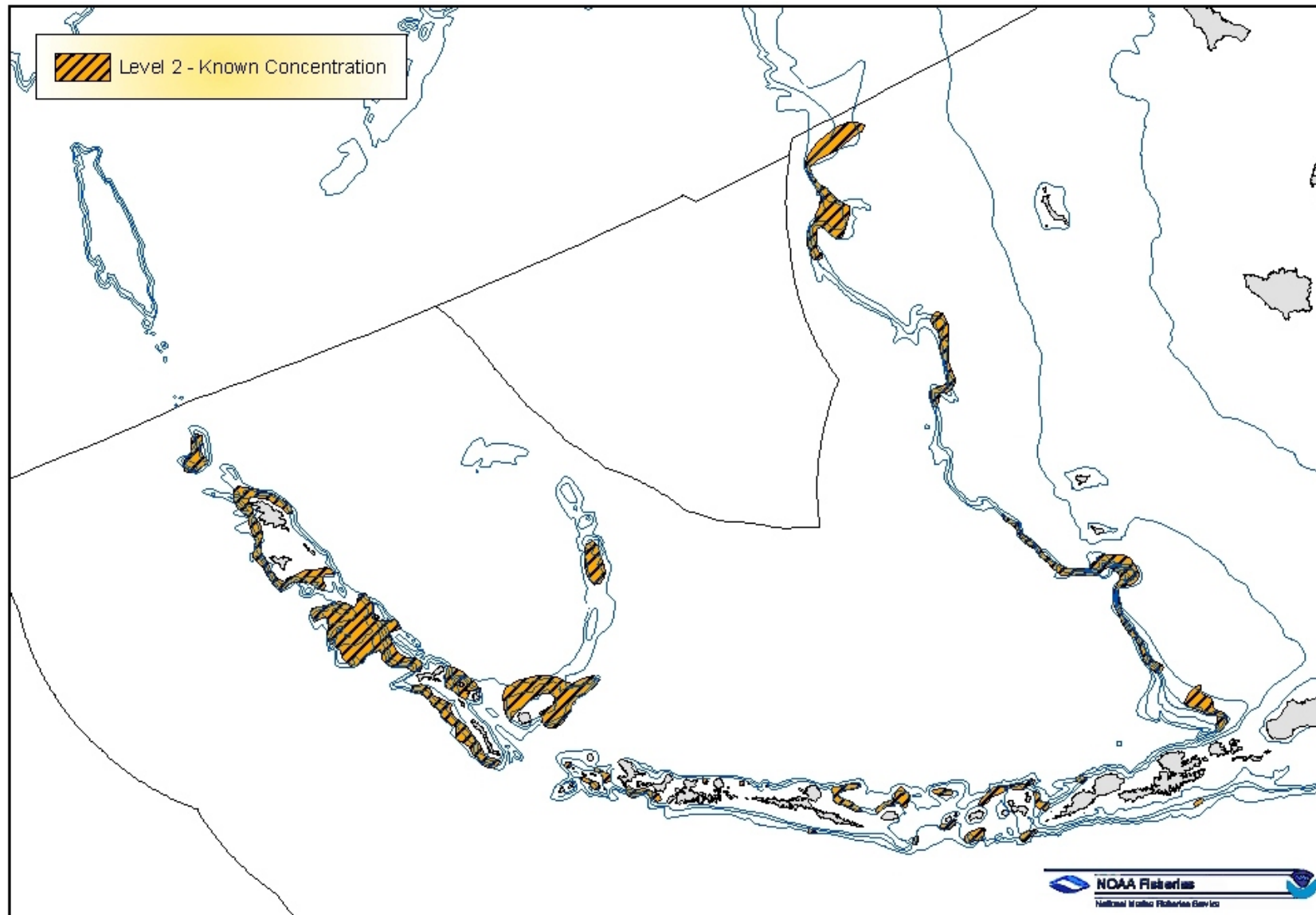


Figure 2-19. Alternative 4: Essential Fish Habitat for Weathervane Scallops

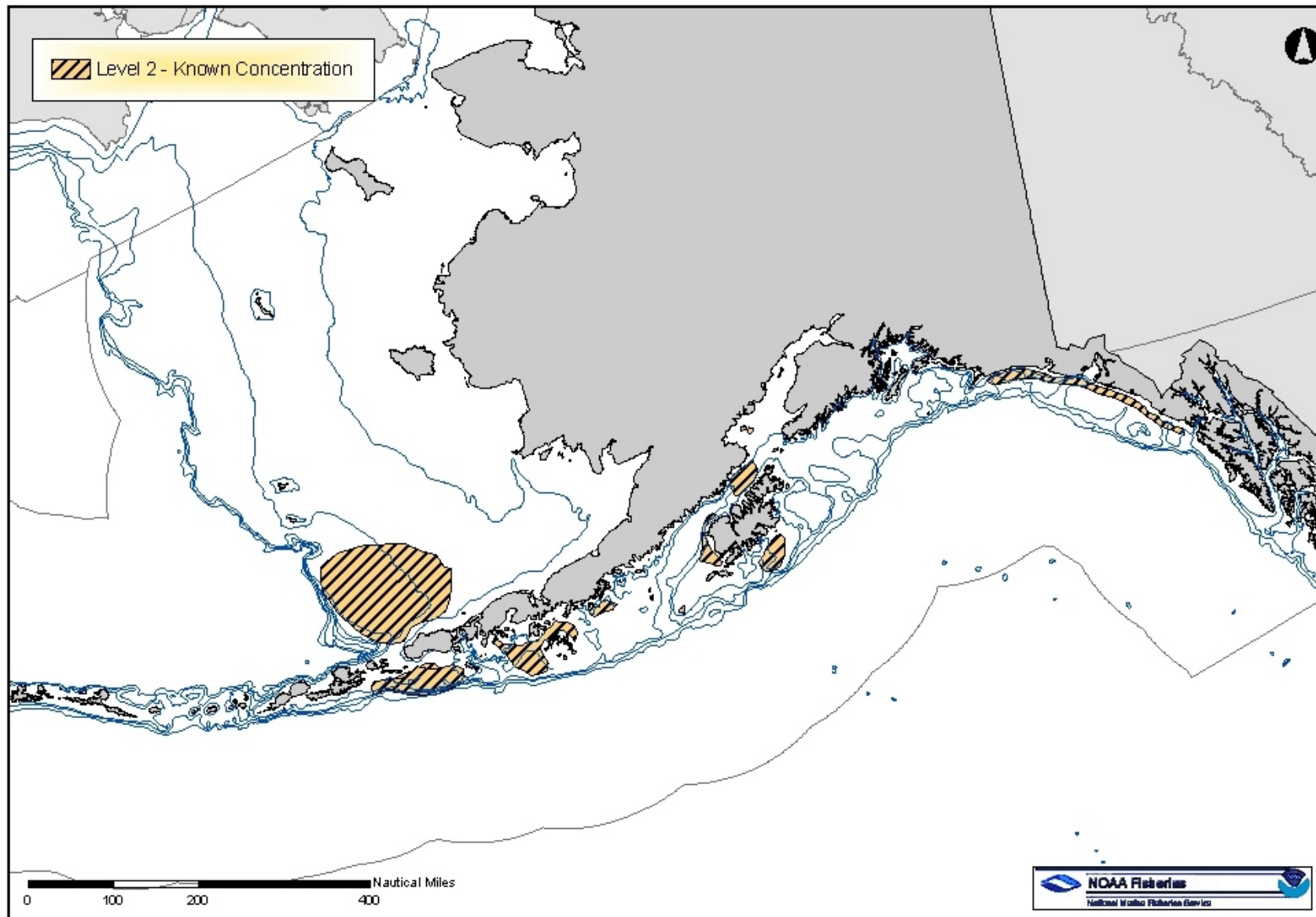


Figure 2-20. Alternative 4: Essential Fish Habitat for Freshwater Chinook Salmon Eggs and Adults

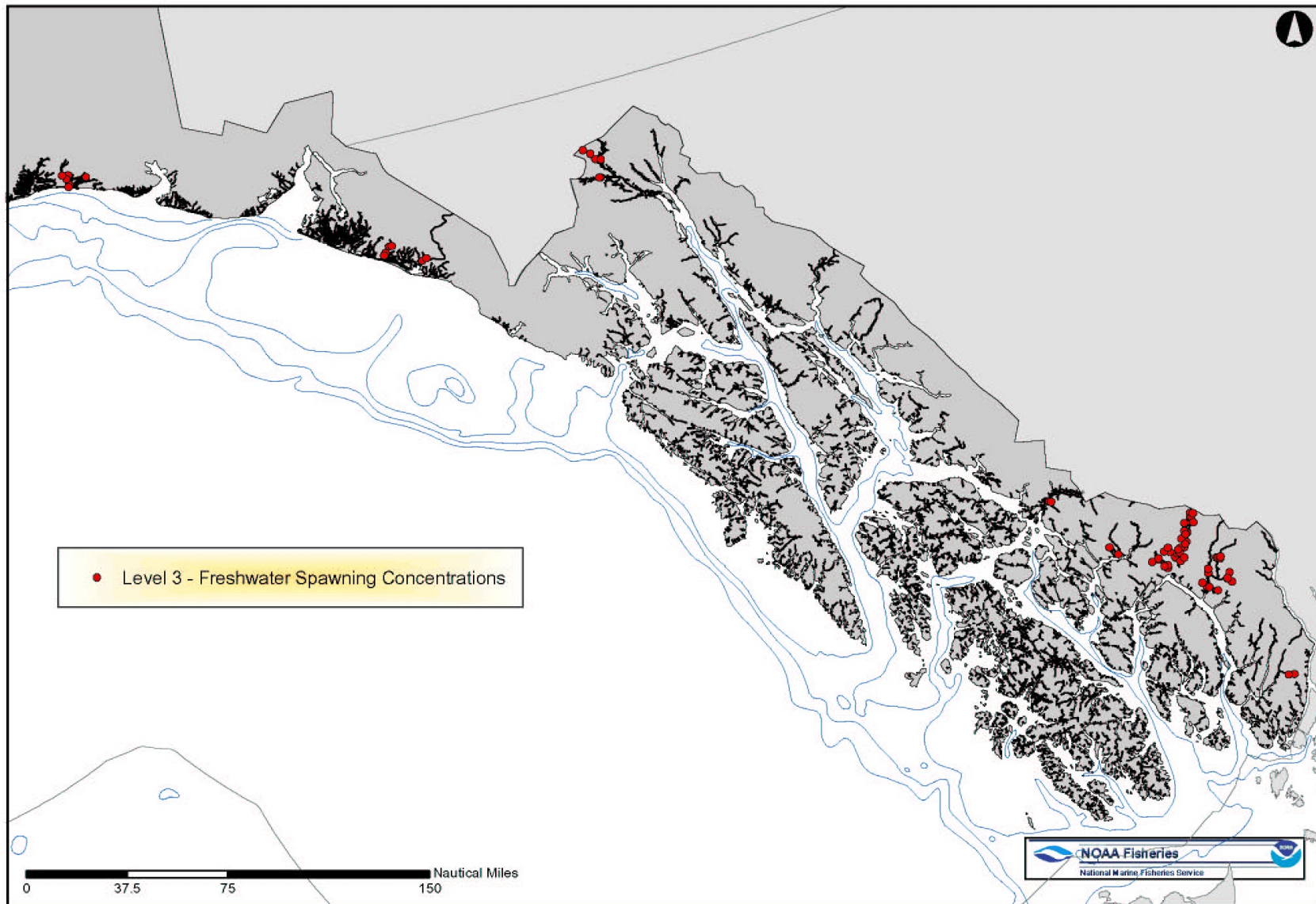


Figure 2-21. Alternative 4: Essential Fish Habitat for Freshwater Chinook Salmon Larvae and Juveniles

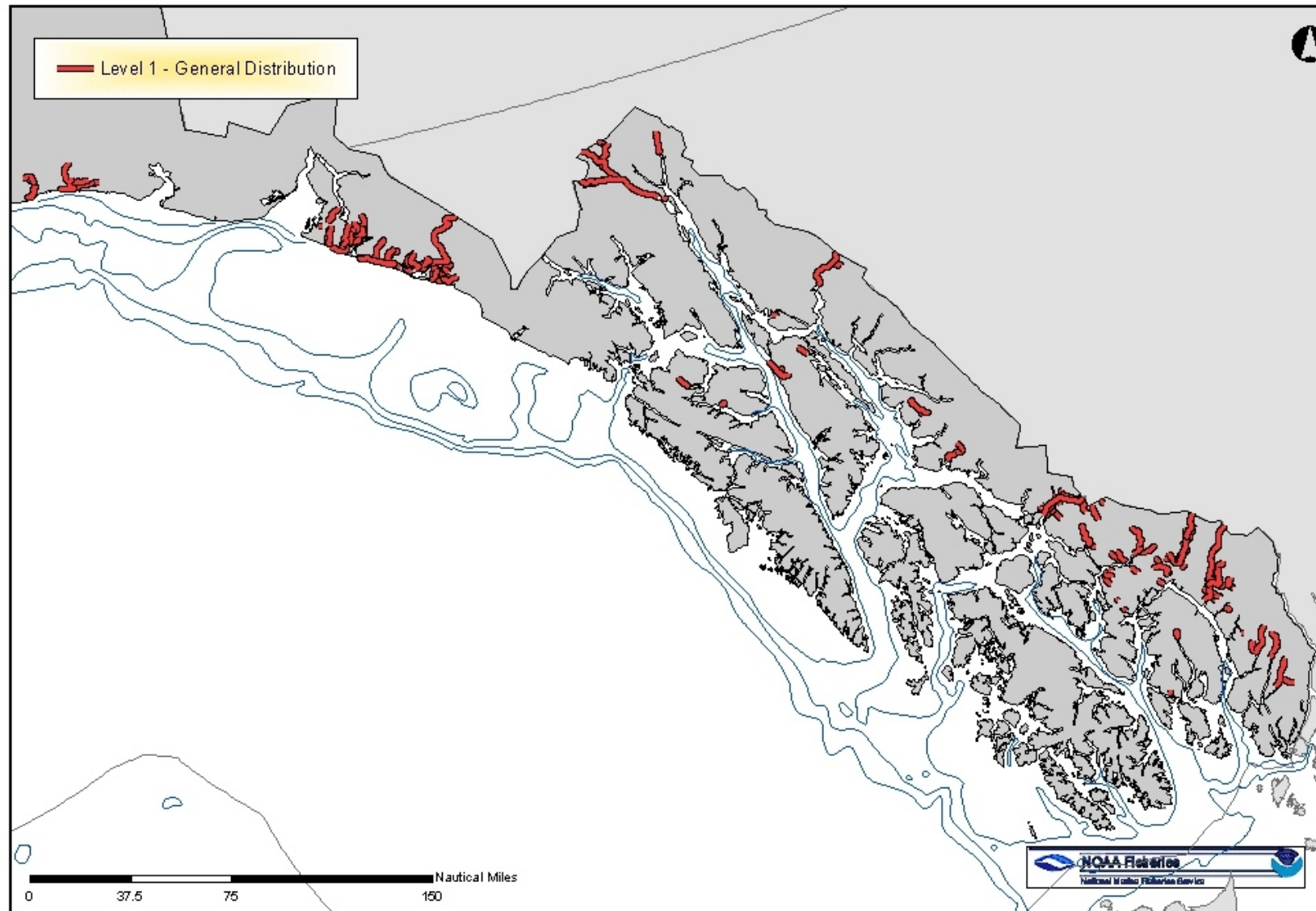


Figure 2-22. Alternative 4: Essential Fish Habitat for Marine Chinook Salmon

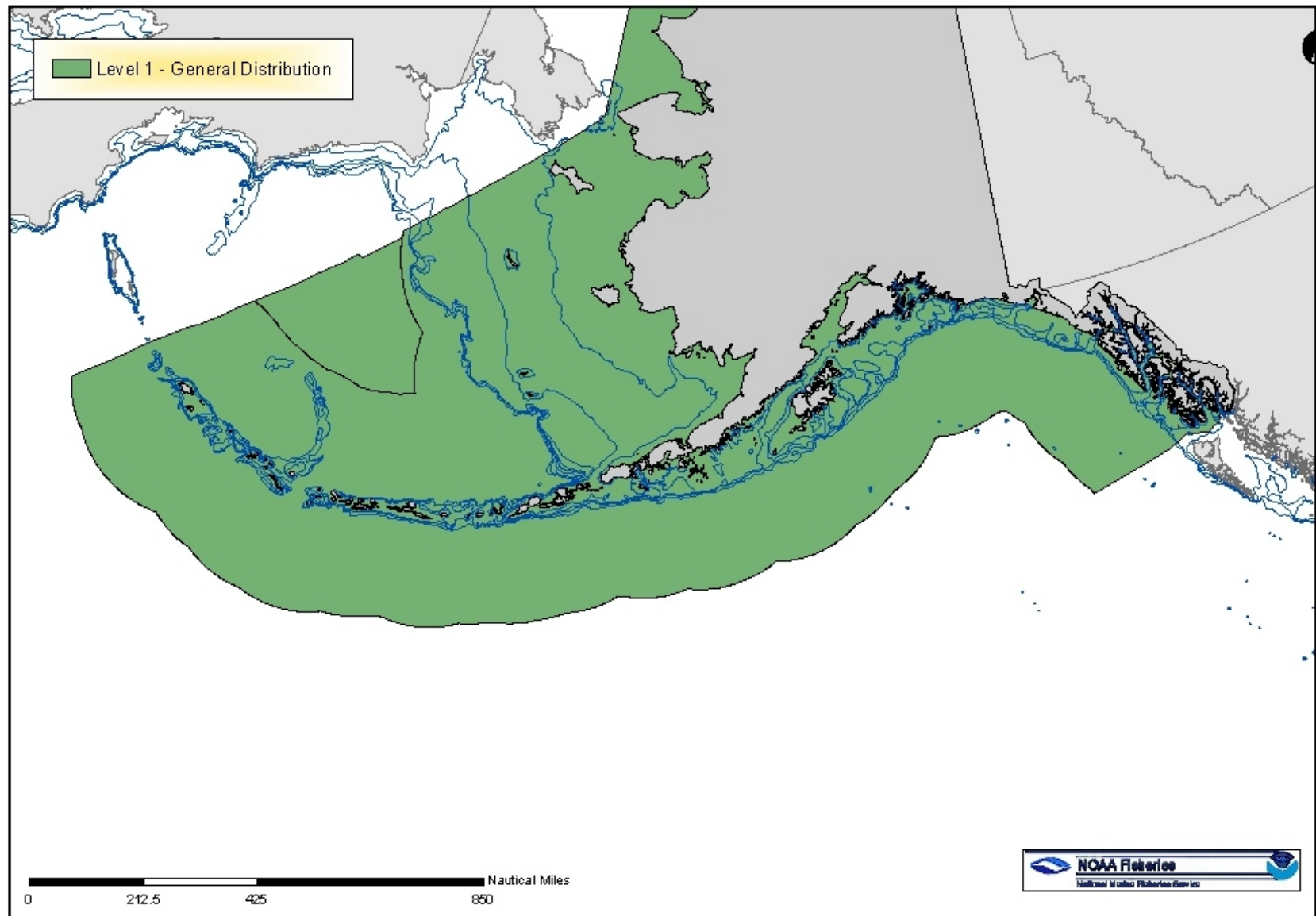


Figure 2-23. Alternative 5: Nearshore and Estuarine Essential Fish Habitat

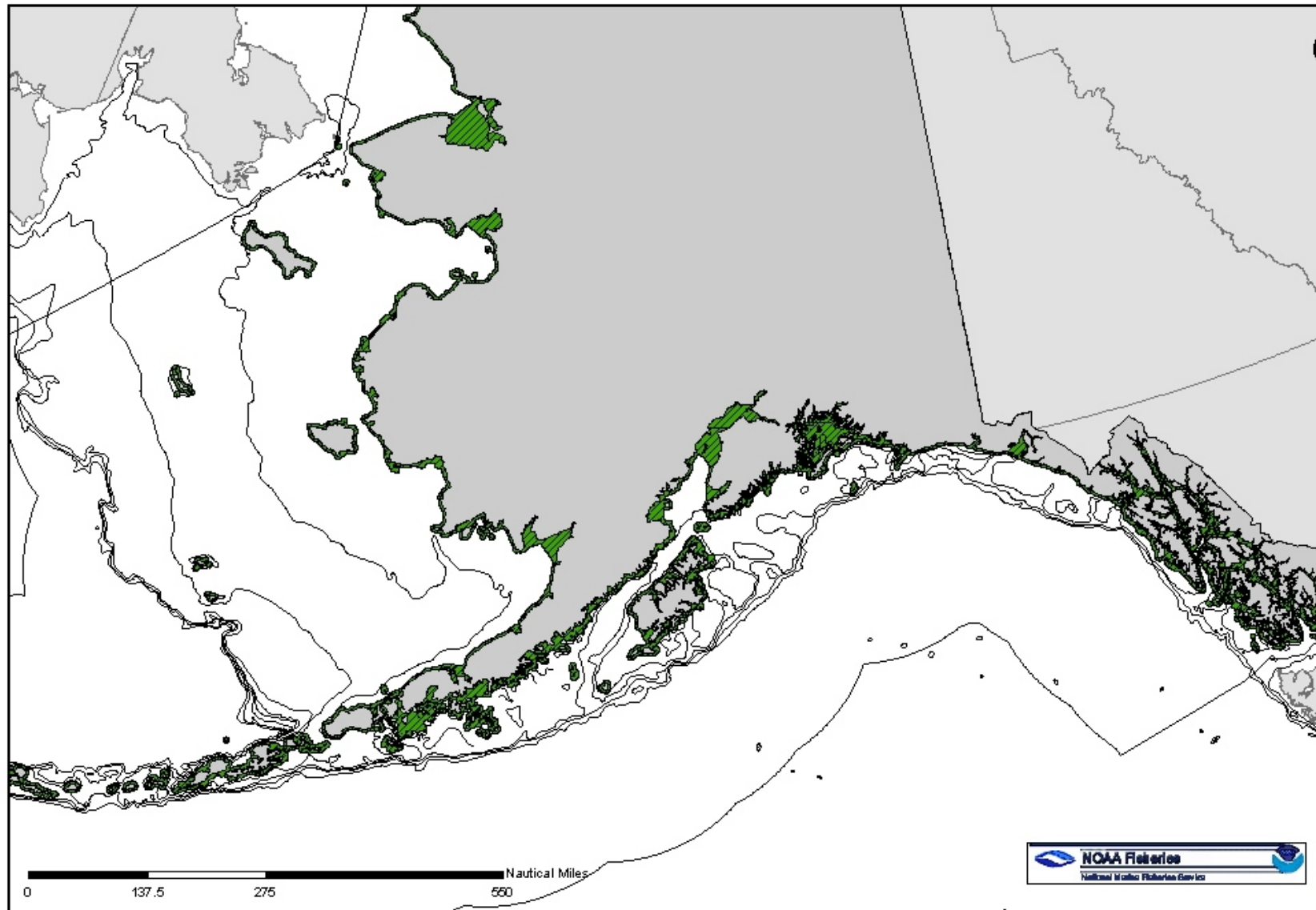


Figure 2-24. Alternative 5: Essential Fish Habitat of the GOA Inner and Middle Shelf Ecoregion (0 to 100 m)

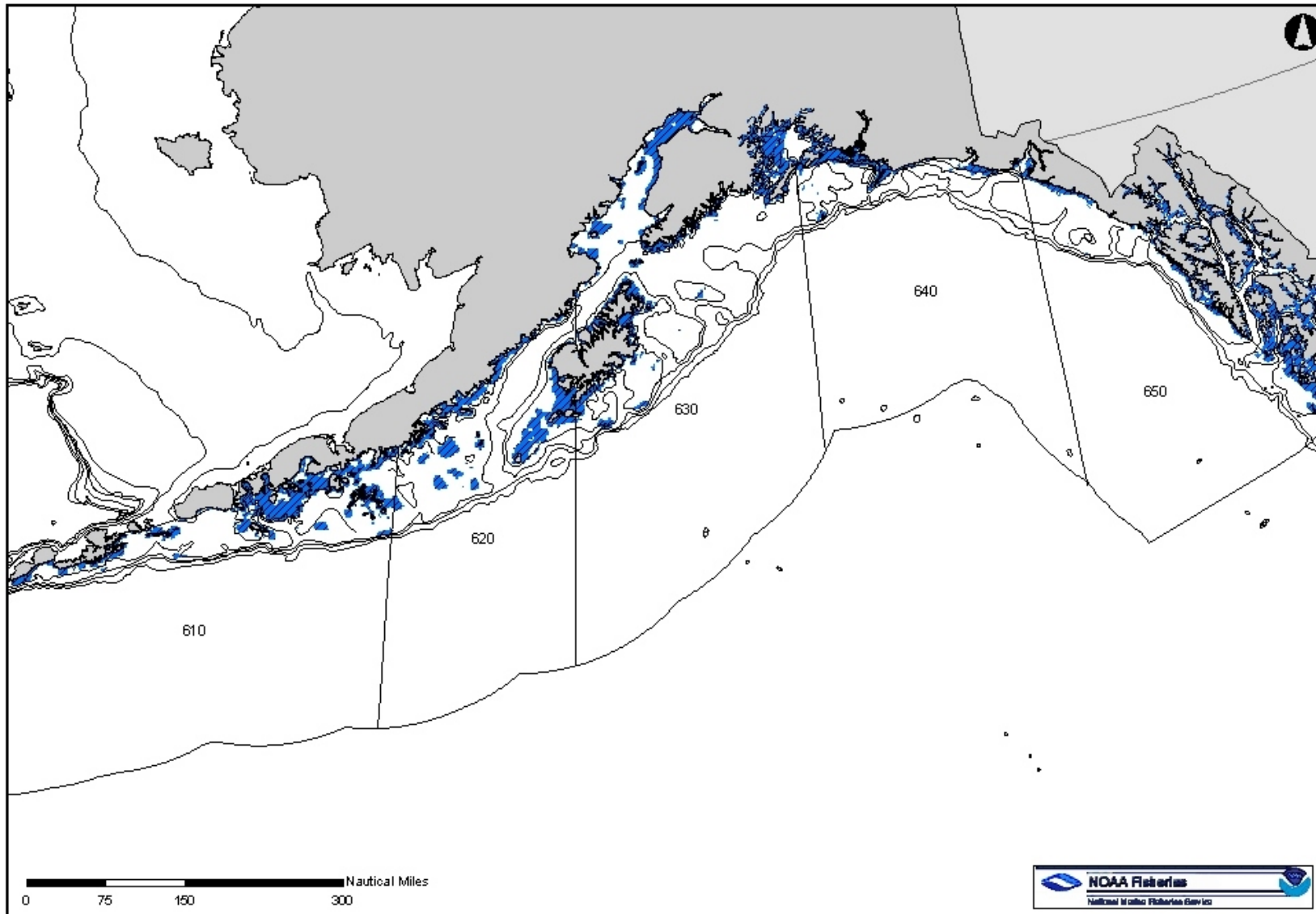


Figure 2-25. Alternative 5: Essential Fish Habitat of the BSAI Inner and Middle Shelf Ecoregion (0 to 100 m)

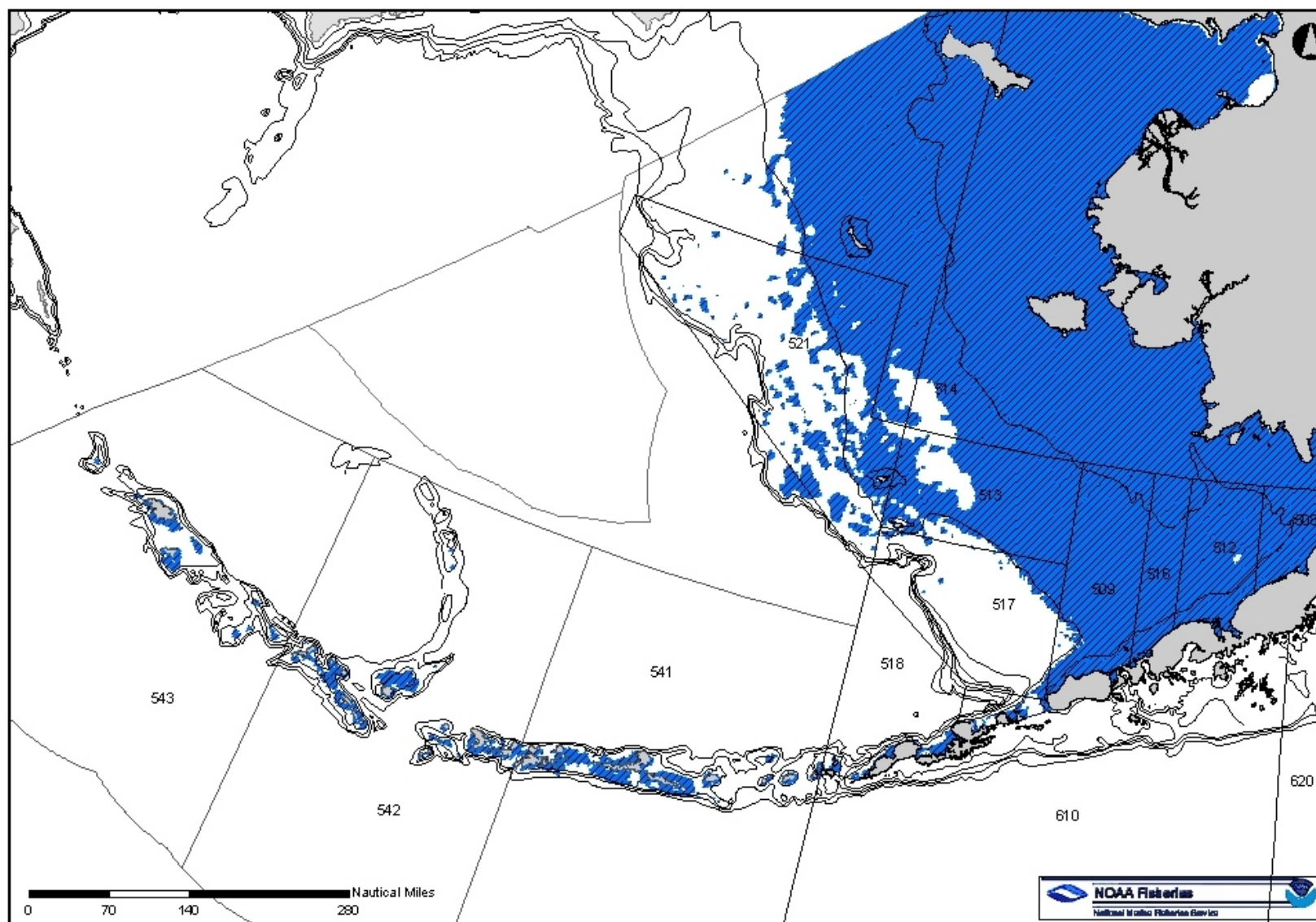


Figure 2-26. Alternative 5: Essential Fish Habitat of the GOA Outer Shelf Ecoregion (100 to 200 m)

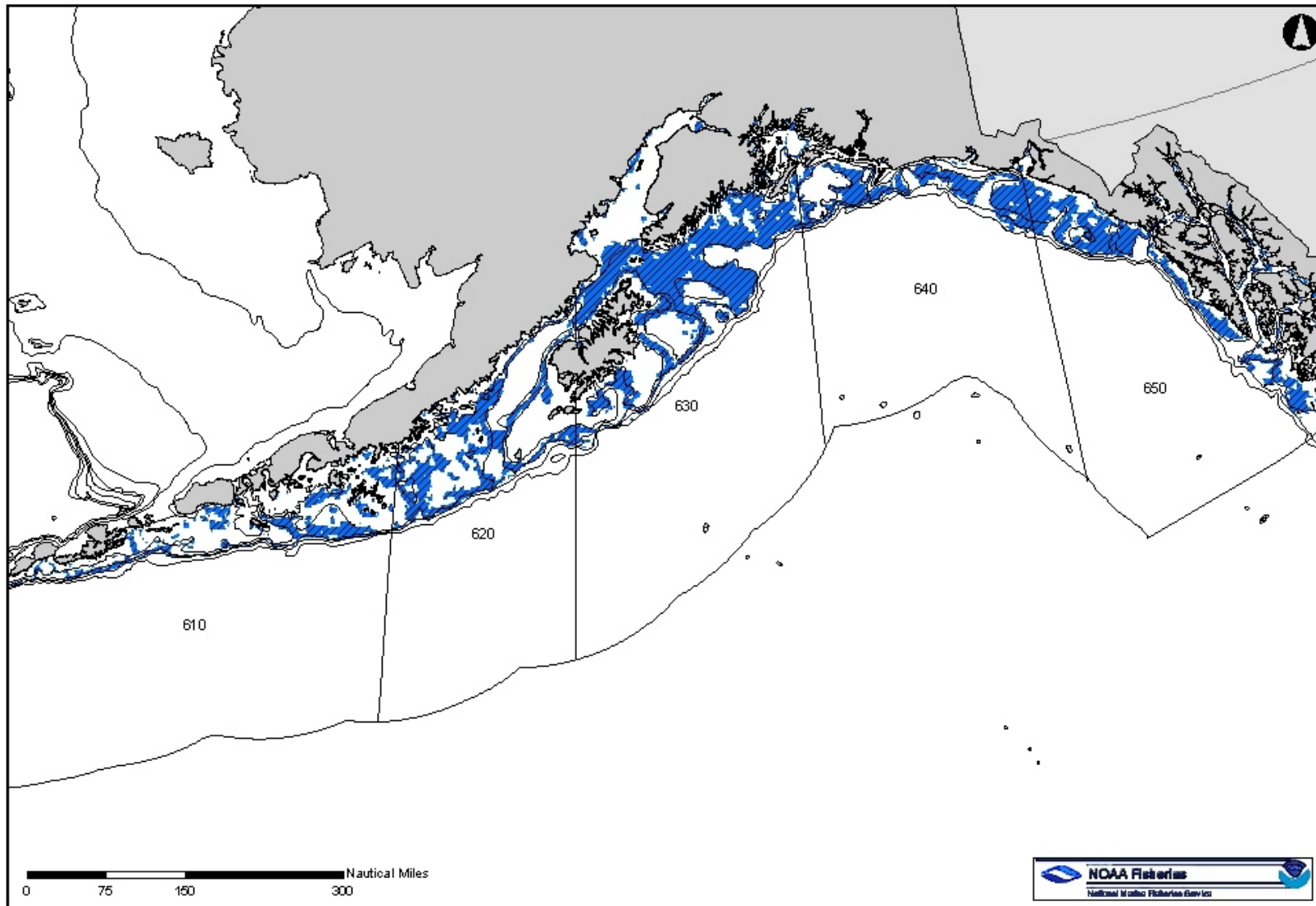


Figure 2-27. Alternative 5: Essential Fish Habitat of the BSAI Outer Shelf Ecoregion (100 to 200 m)

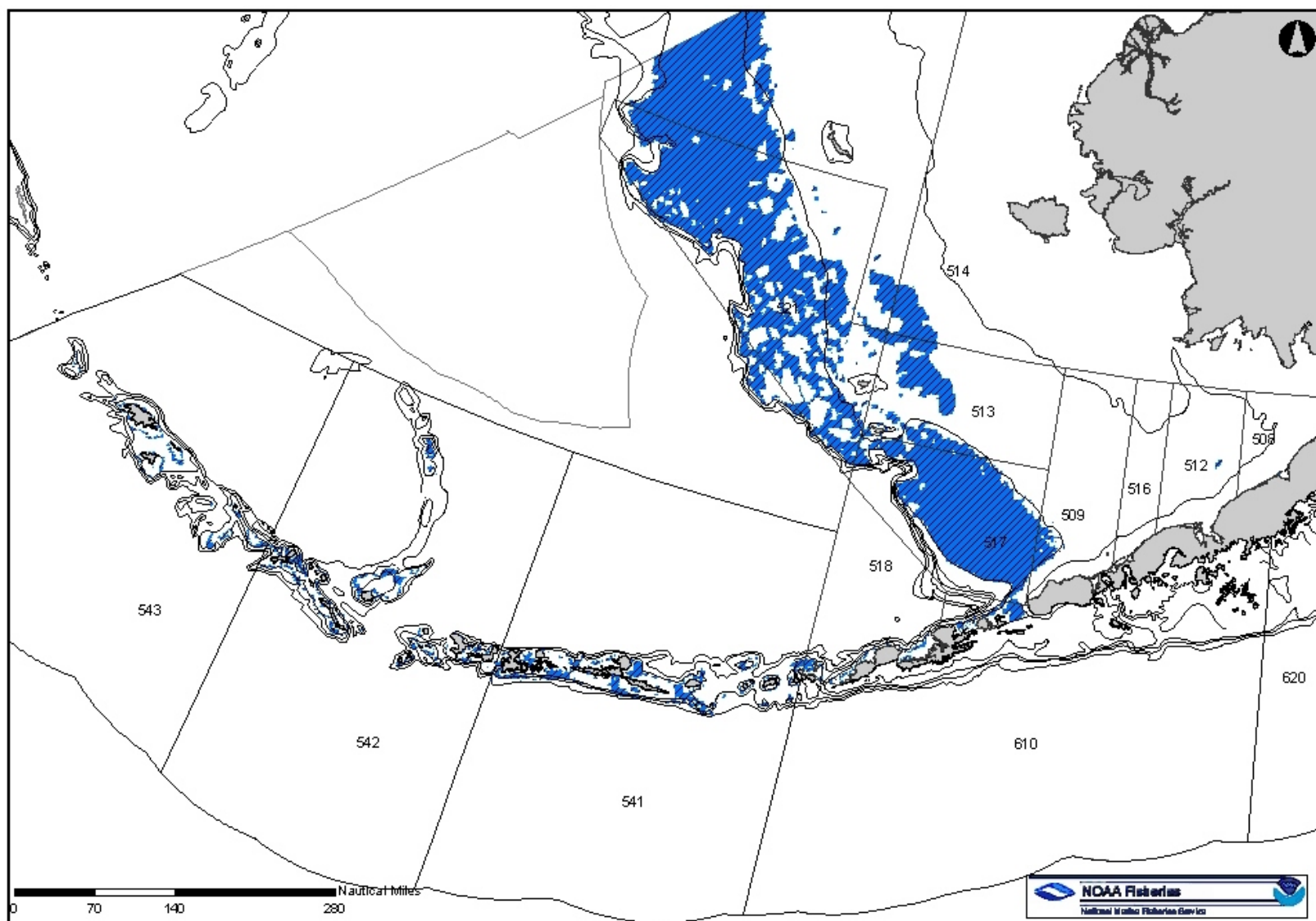


Figure 2-28. Alternative 5: Essential Fish Habitat of the GOA Upper Slope Ecoregion (200 to 500 m)

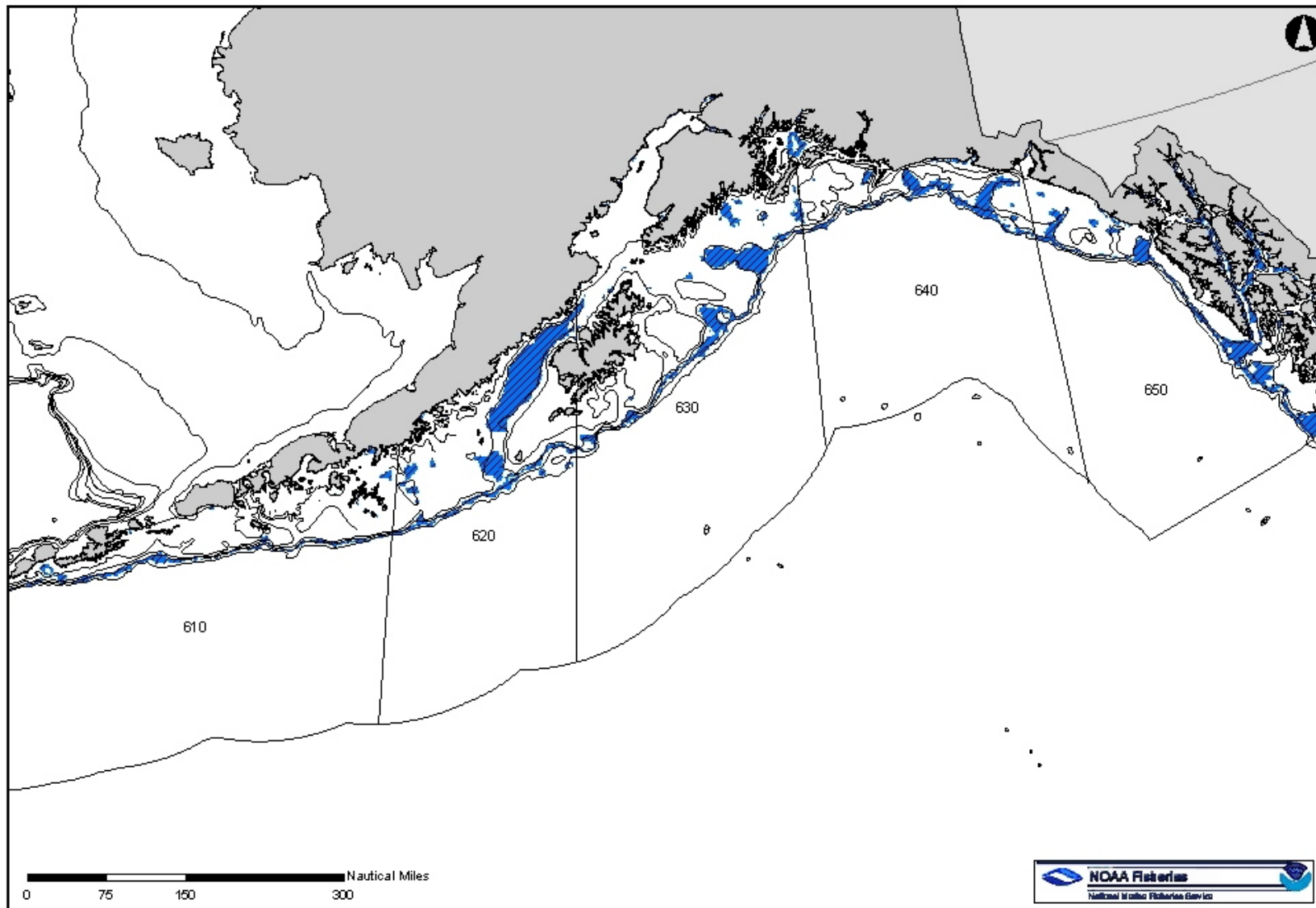


Figure 2-29. Alternative 5: Essential Fish Habitat of the BSAI Upper Slope Ecoregion (200 to 500 m)

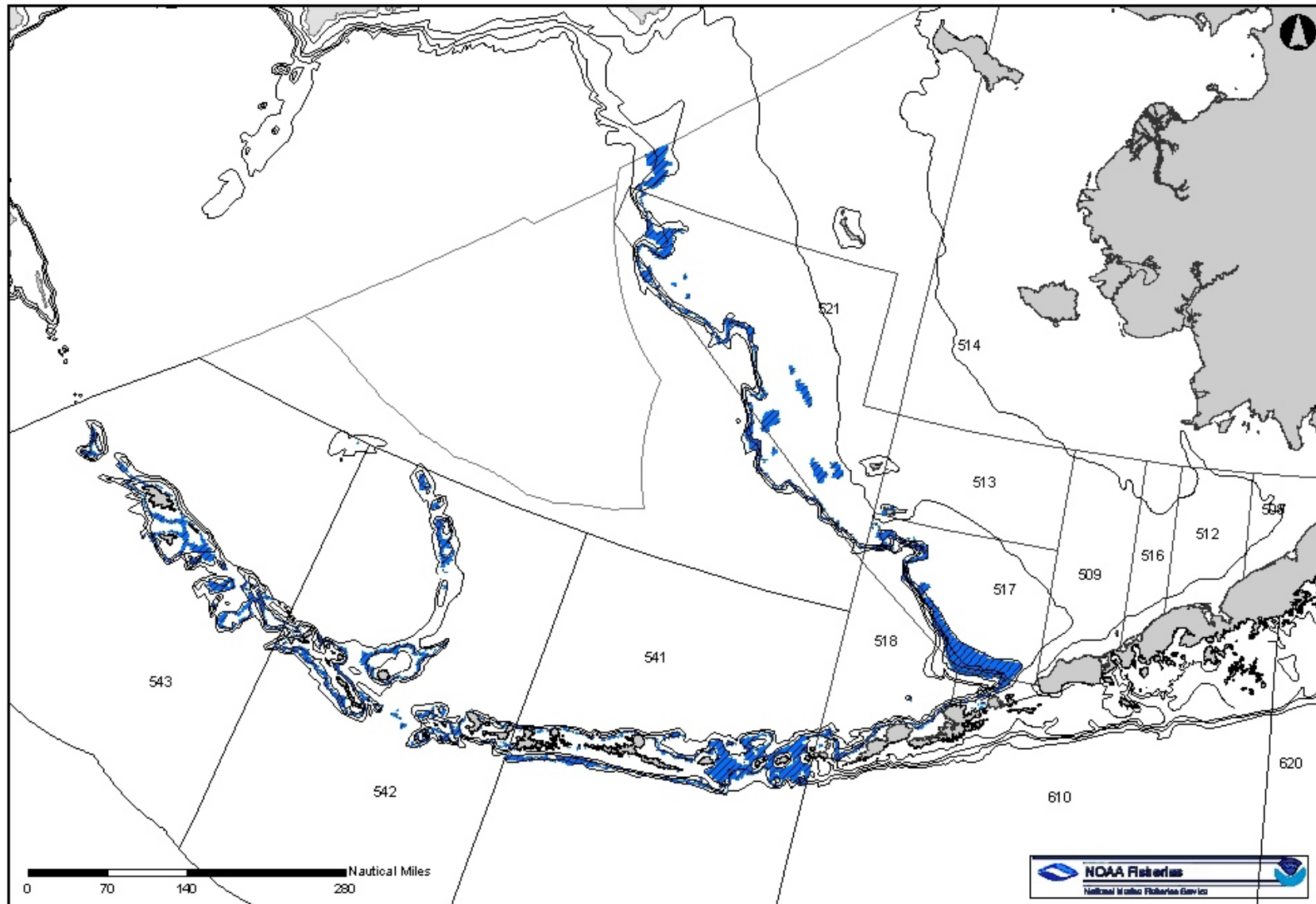


Figure 2-30. Alternative 5: Essential Fish Habitat of the GOA Middle Slope Ecoregion (500 to 1,000 m)

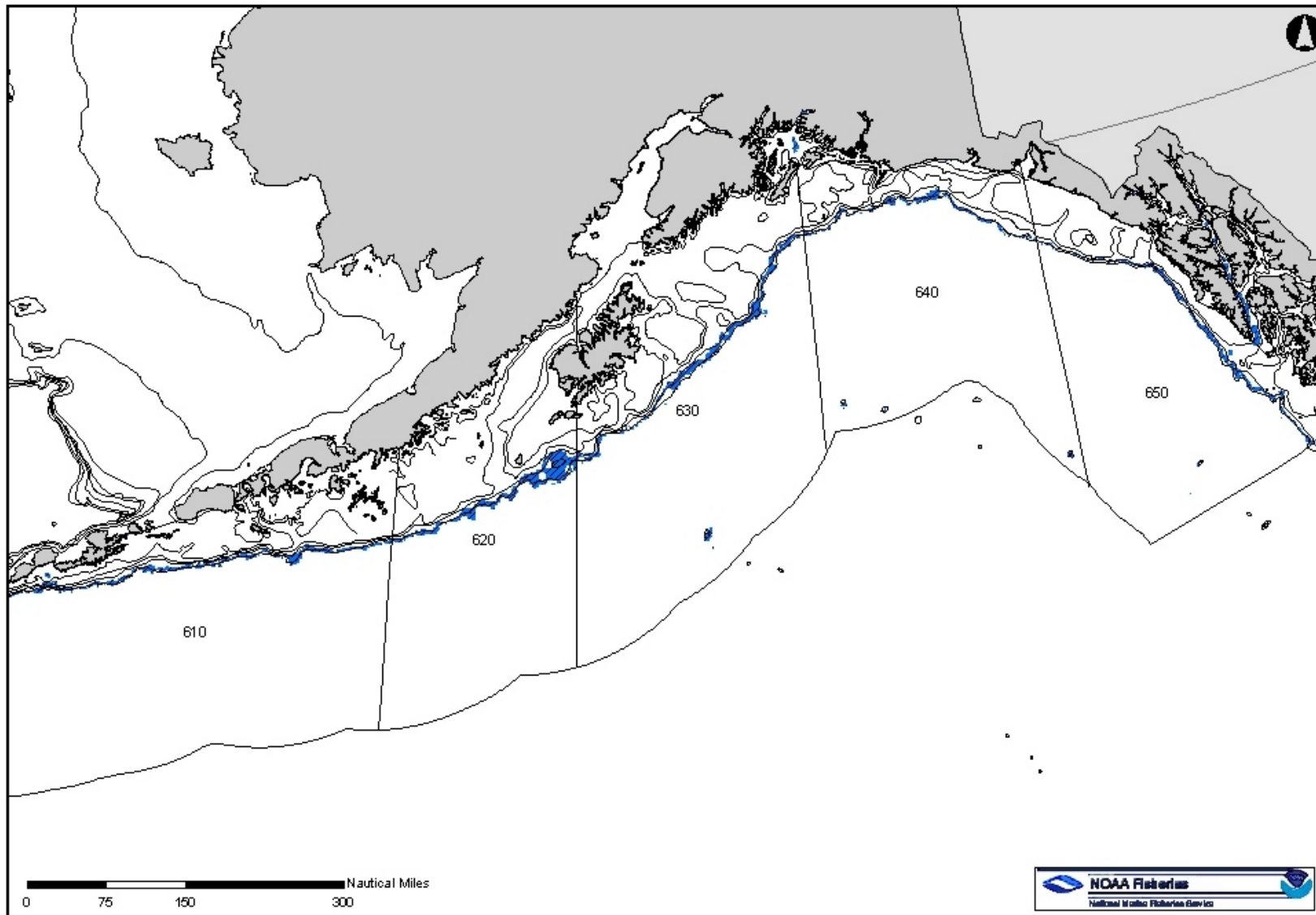


Figure 2-31. Alternative 5: Essential Fish Habitat of the BSAI Middle Slope Ecoregion (500 to 1,000 m)

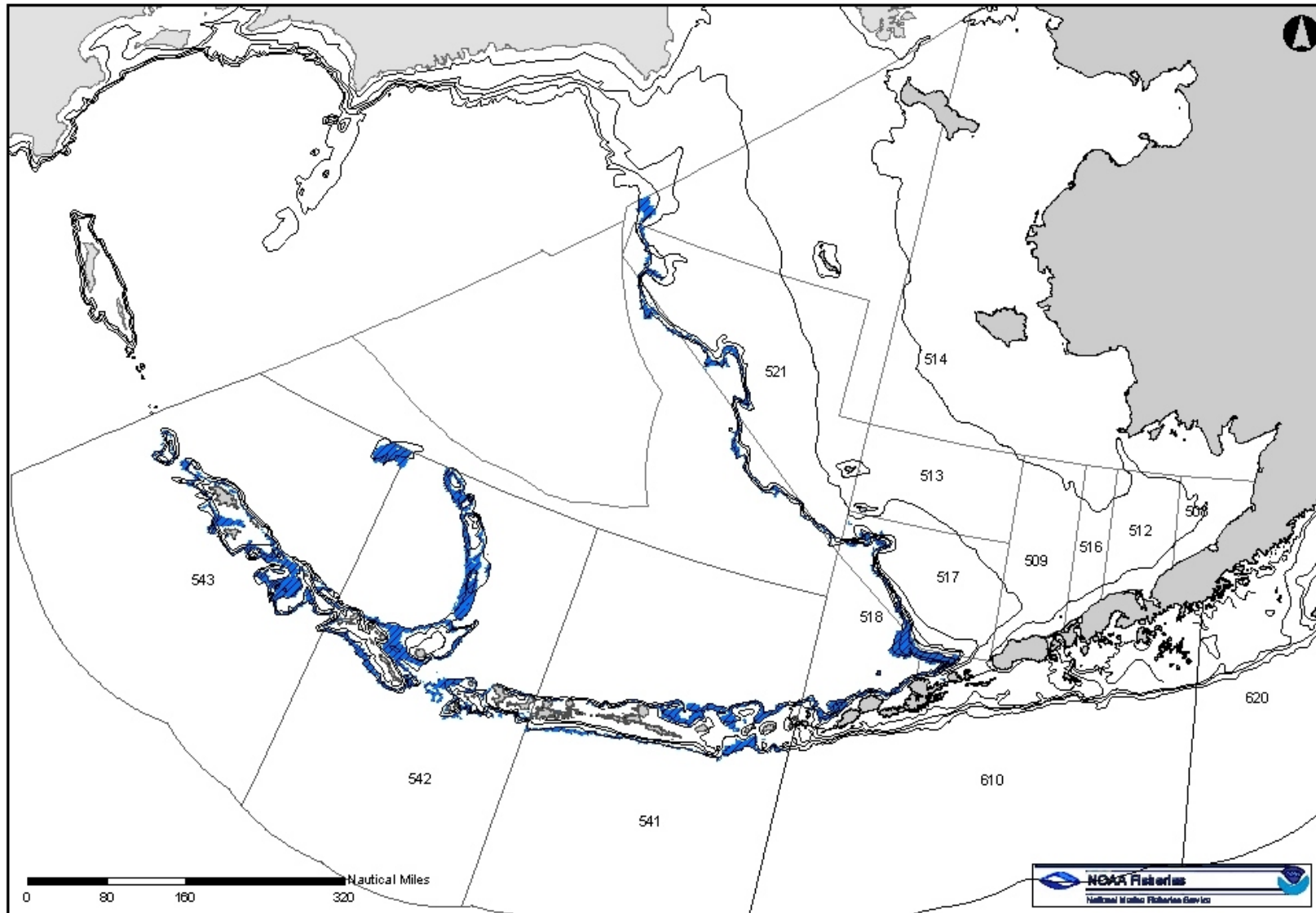


Figure 2-32. Alternative 5: Essential Fish Habitat of the GOA Lower Slope Ecoregion (1,000 to 3,000 m)

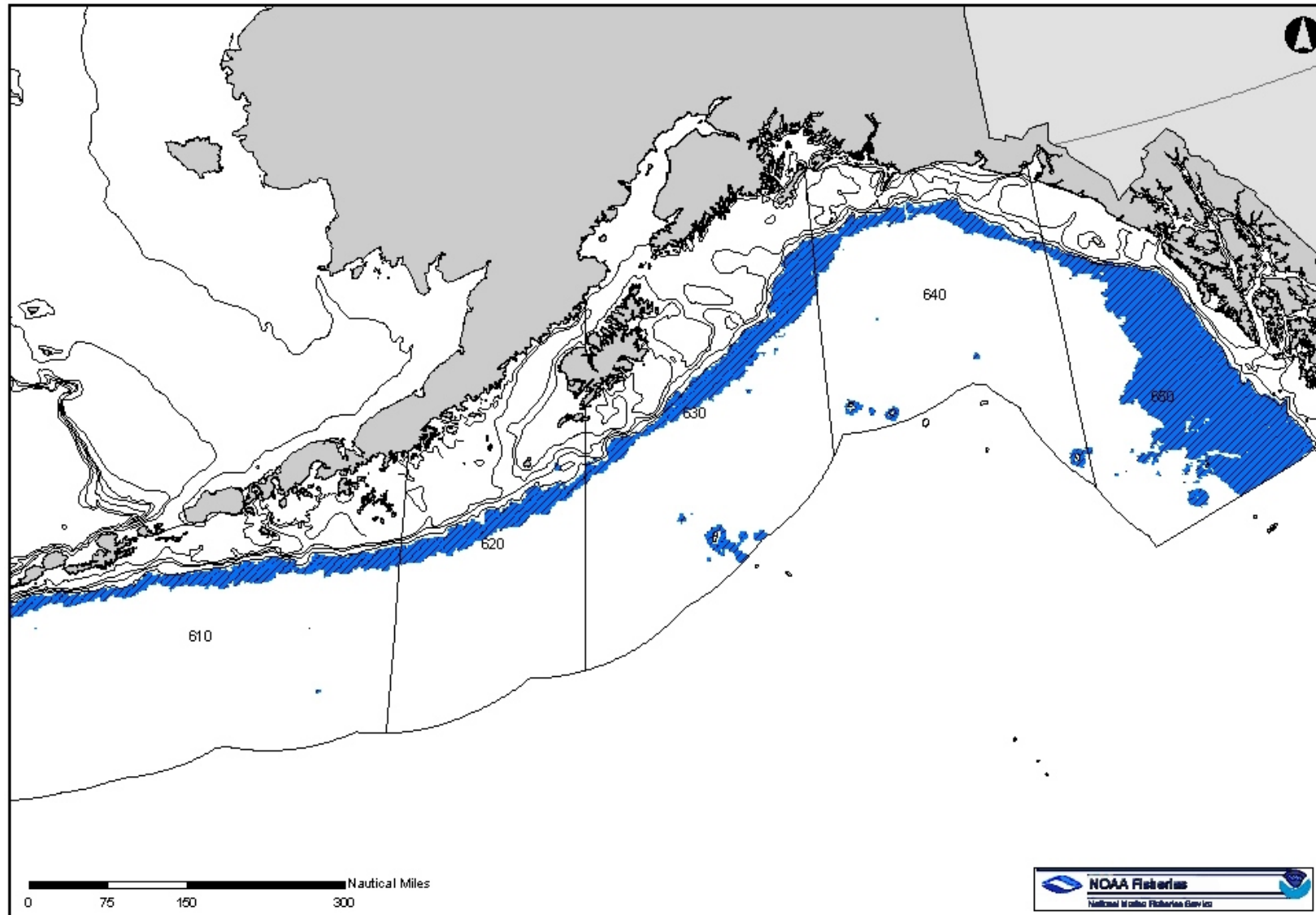


Figure 2-33. Alternative 5: Essential Fish Habitat of the BSAI Lower Slope Ecoregion (1,000 to 3,000 m)

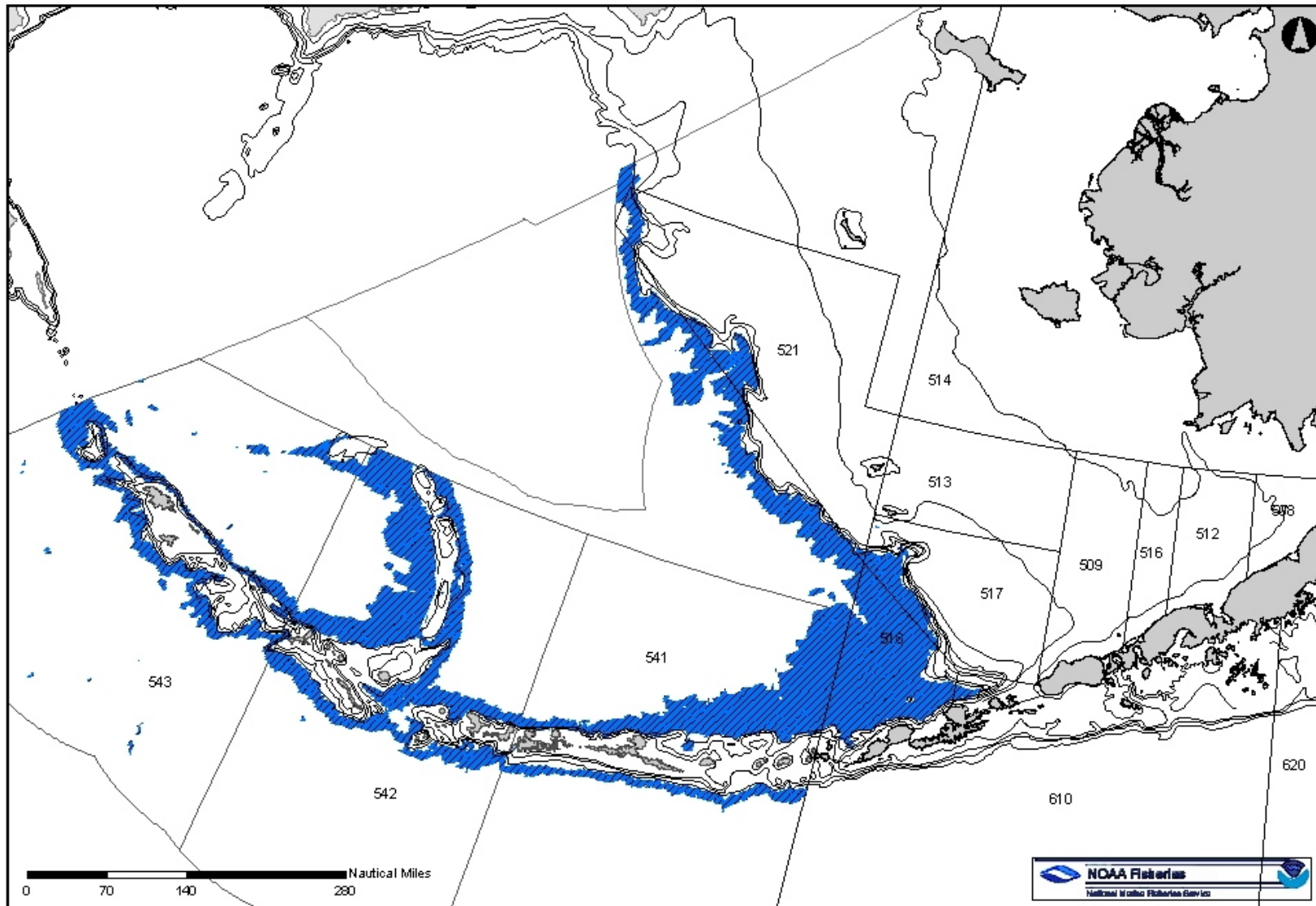


Figure 2-34. Alternative 5: Essential Fish Habitat of the GOA Basin Ecoregion (>3,000 m)

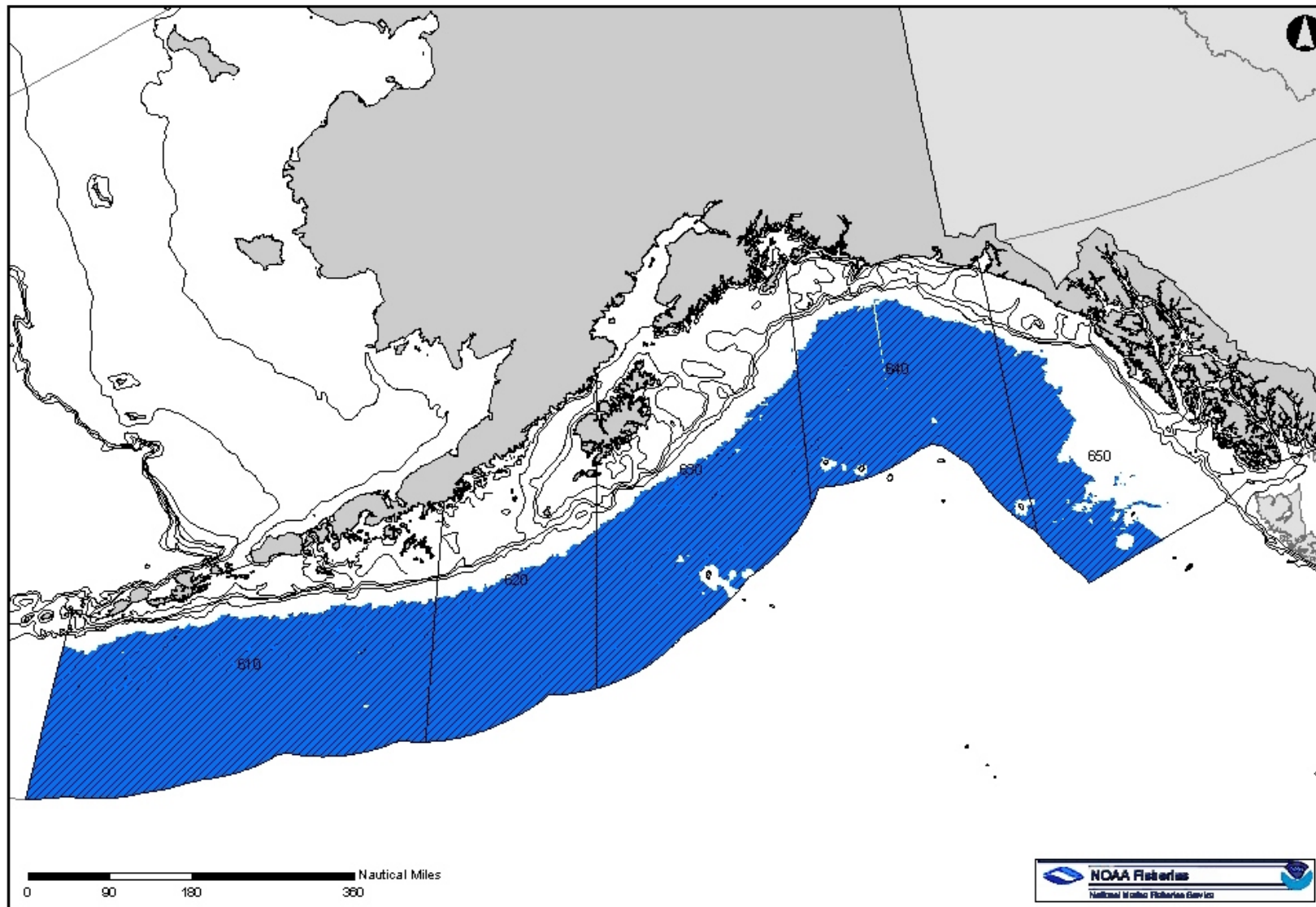


Figure 2-35. Alternative 5: Essential Fish Habitat of the BSAI Basin Ecoregion (>3,000 m)

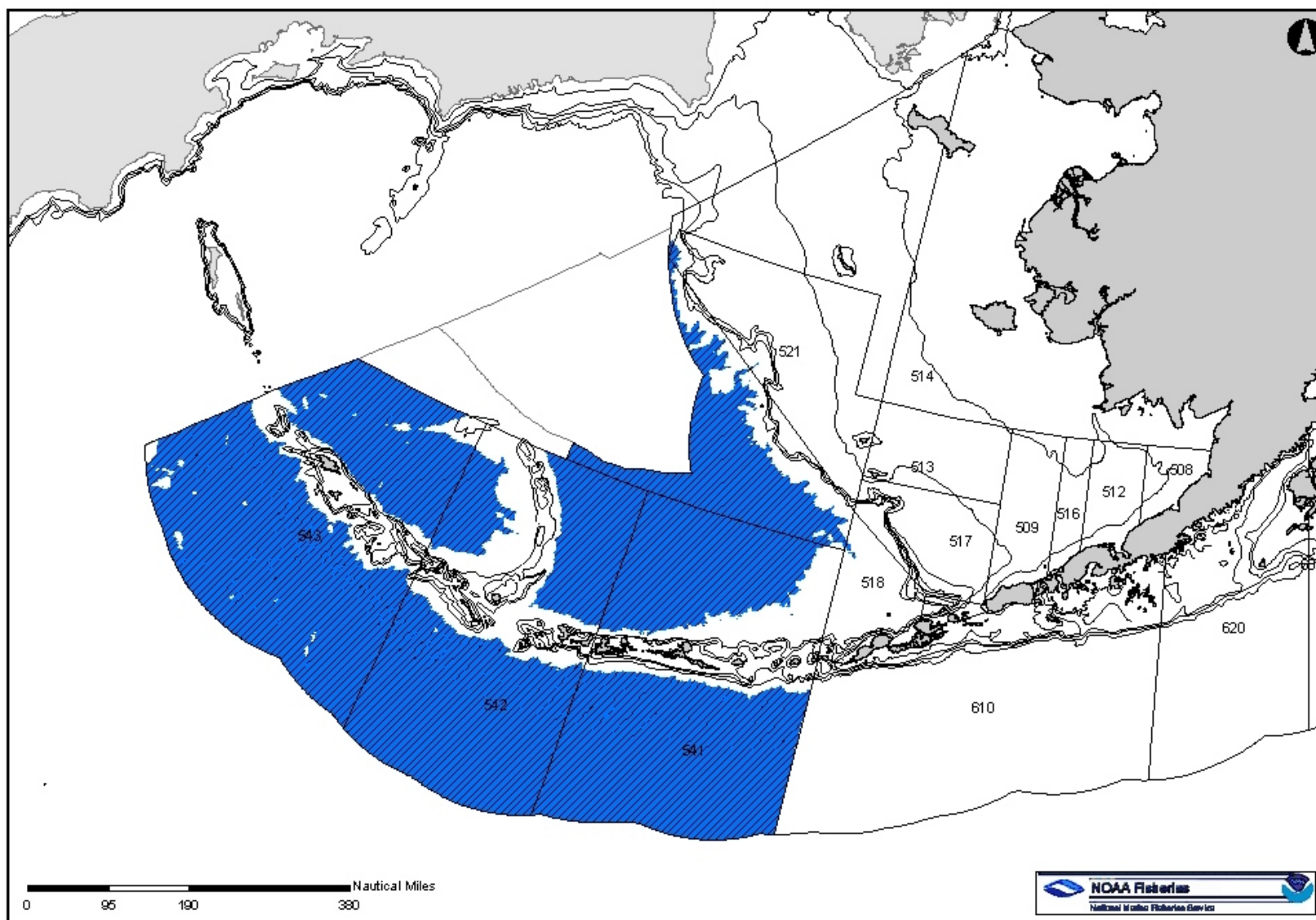


Figure 2-36. Alternative 6: Essential Fish Habitat for Late Juvenile and Adult GOA Pacific Ocean Perch

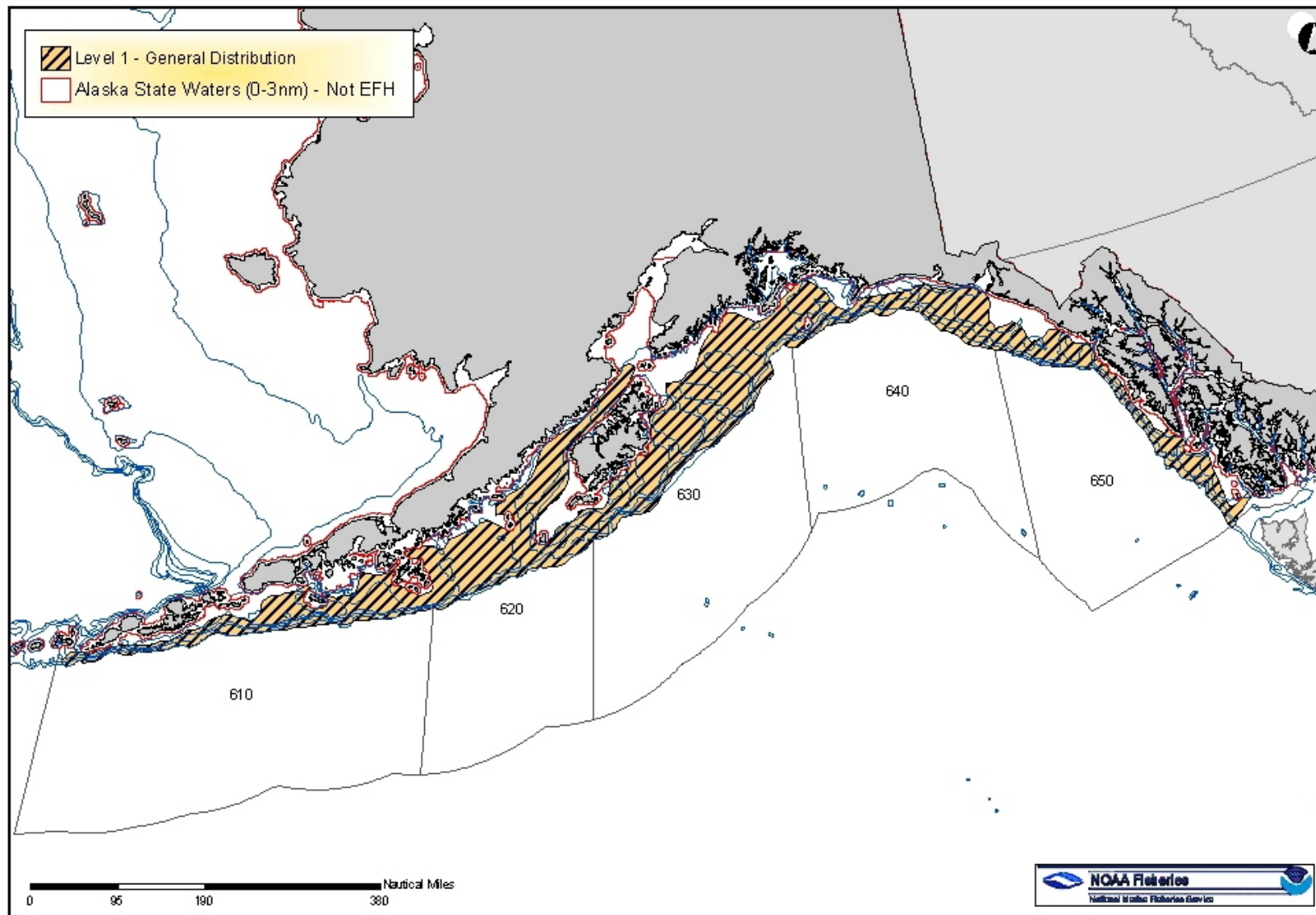


Figure 2-37. Alternative 6: Essential Fish Habitat for Late Juvenile and Adult BSAI Pacific Cod

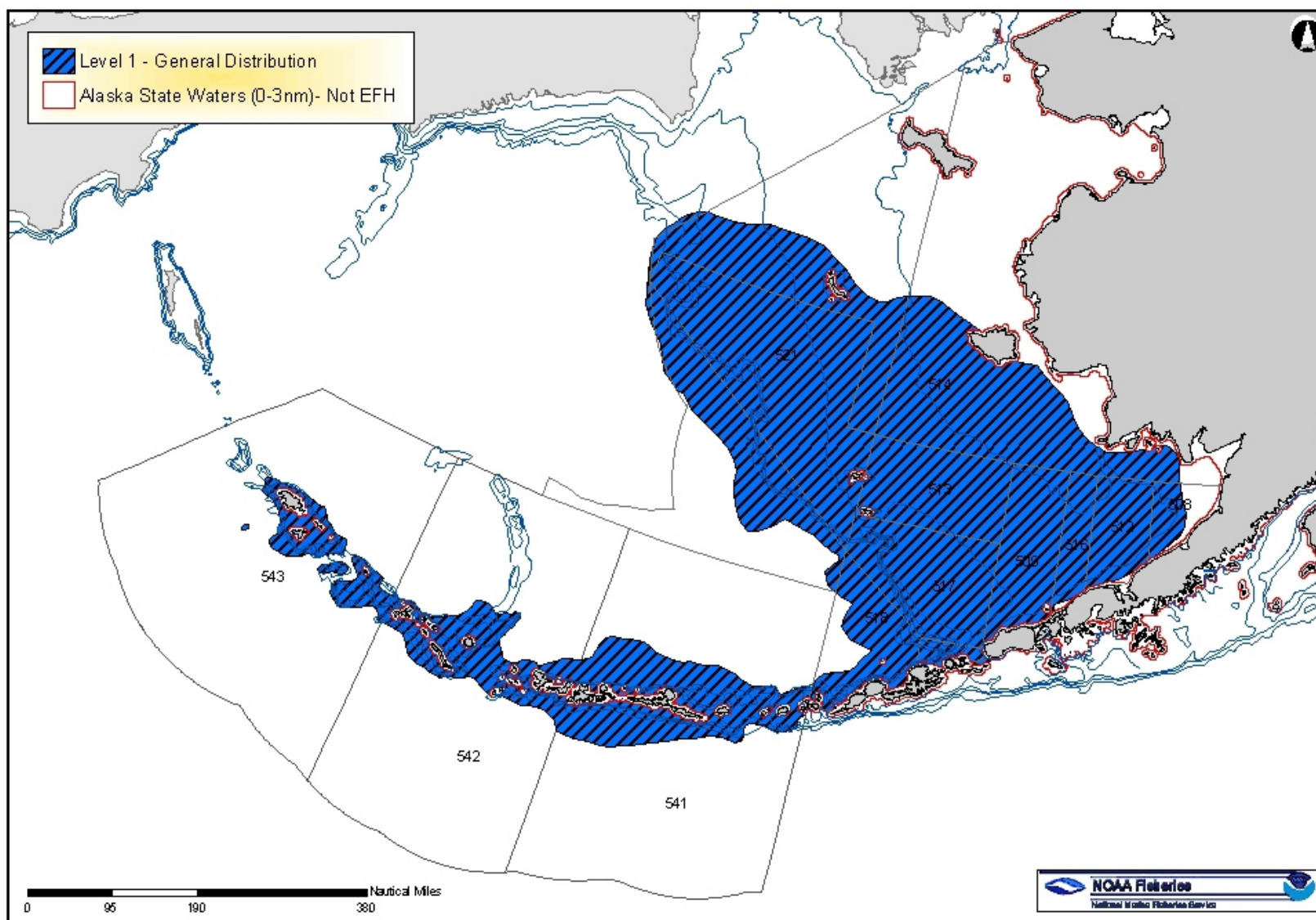


Figure 2-38. Alternative 6: Essential Fish Habitat for BSAI Golden King Crab

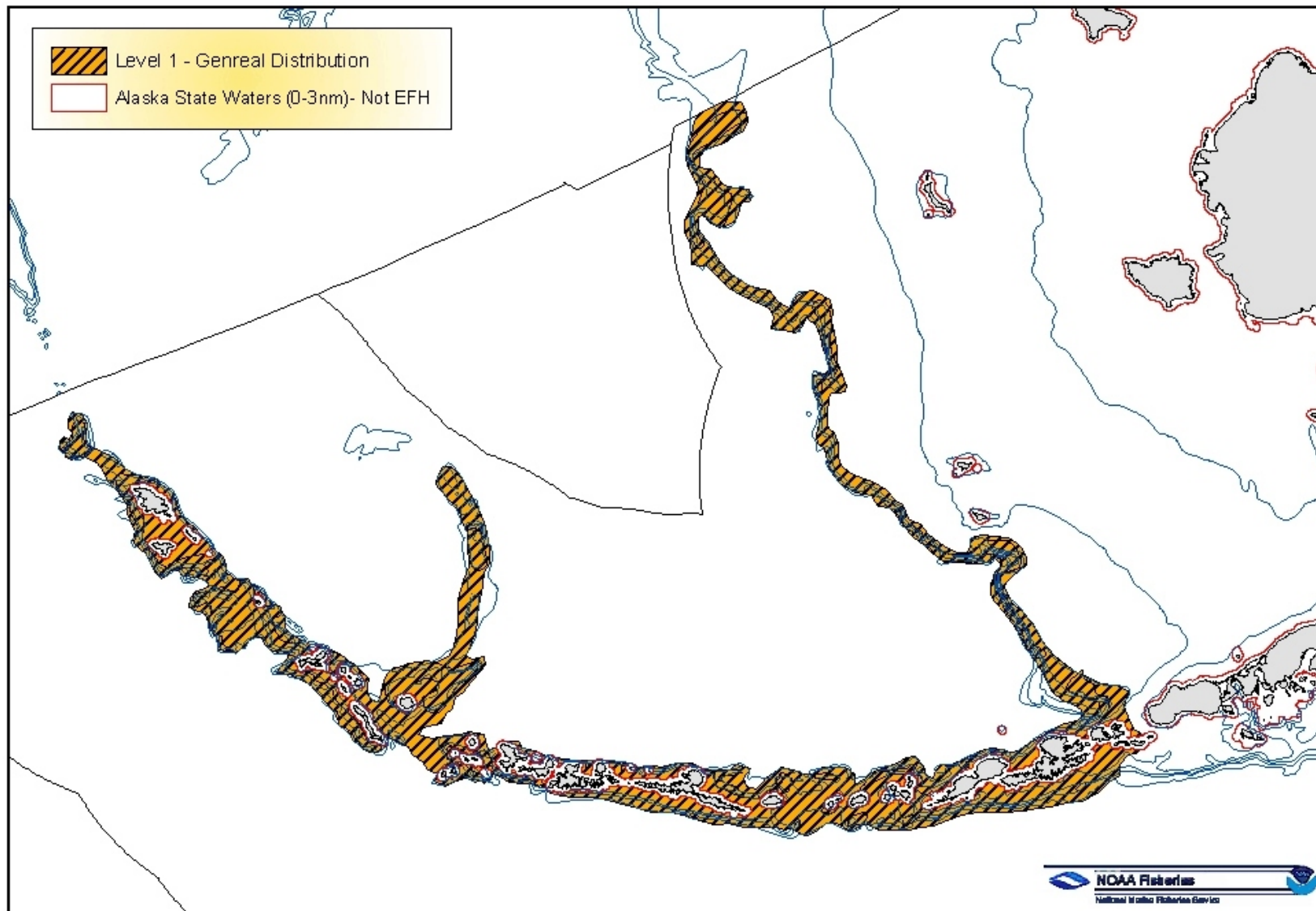


Figure 2-39. Alternative 6: Essential Fish Habitat for Late Juvenile and Adult Weathervane Scallops

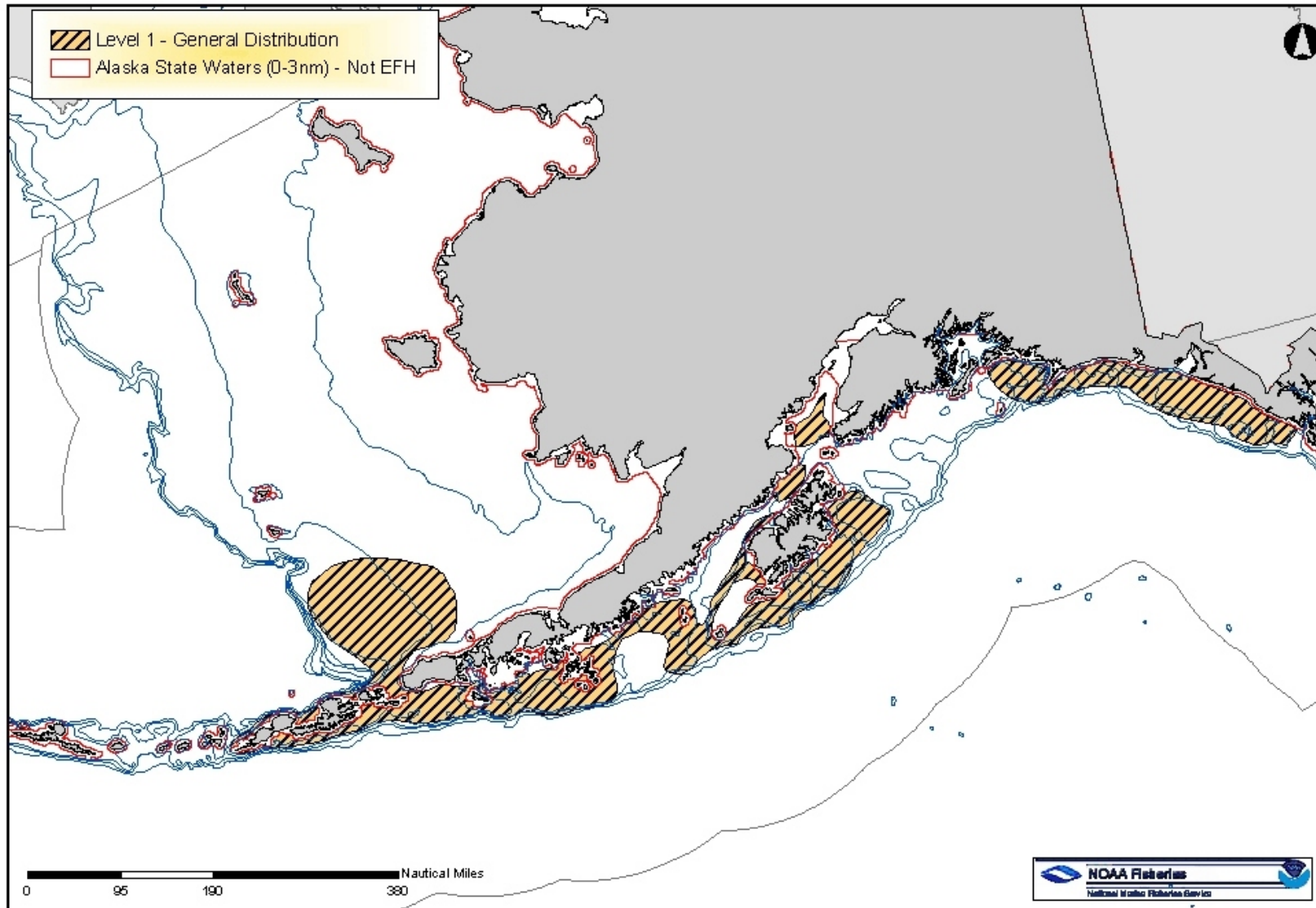


Figure 2-40. Alternative 6: Essential Fish Habitat for Marine Juvenile and Maturing Adult Chinook Salmon

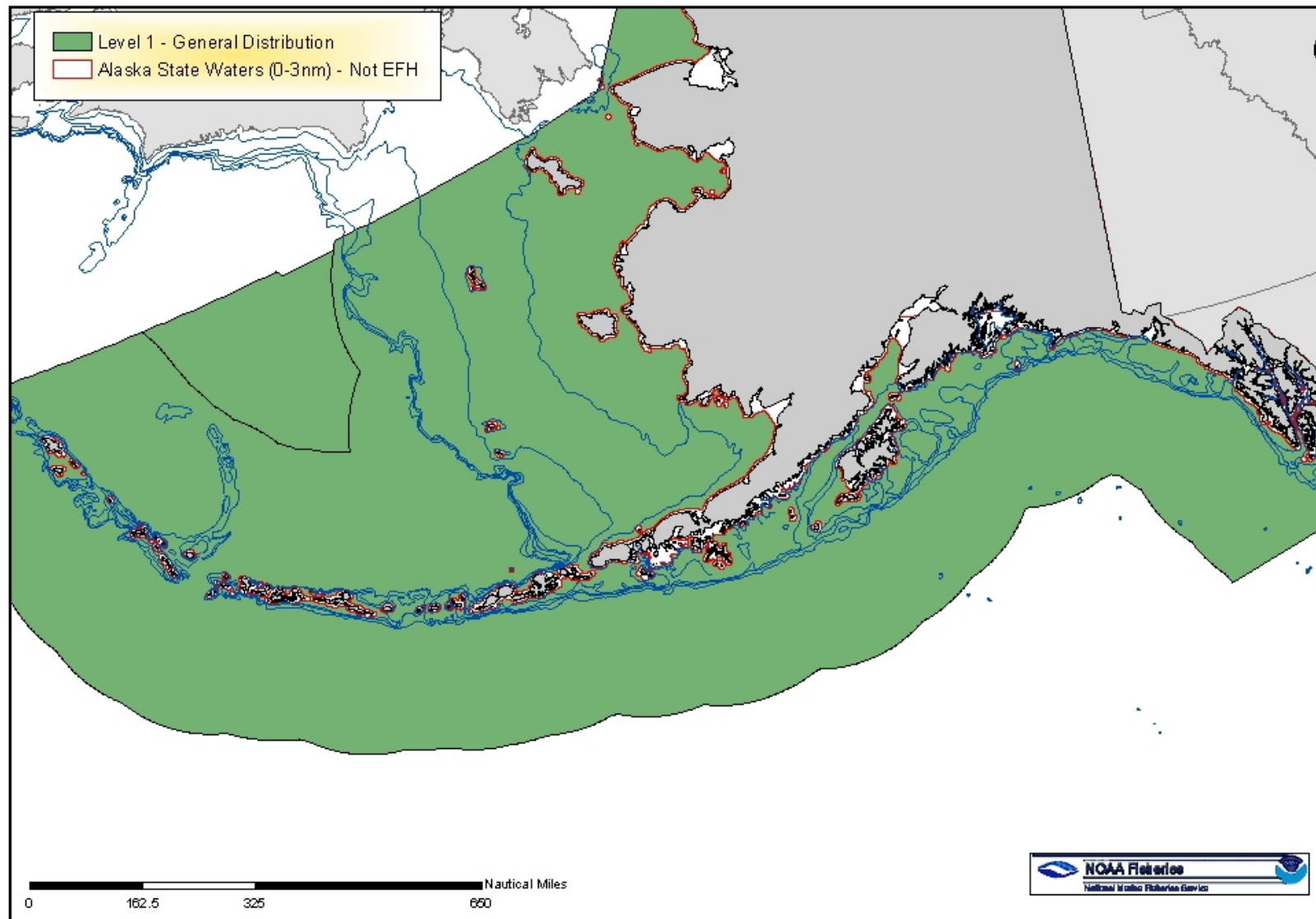


Figure 2-41. Alternative 2: Gulf Slope Bottom Trawl Closures

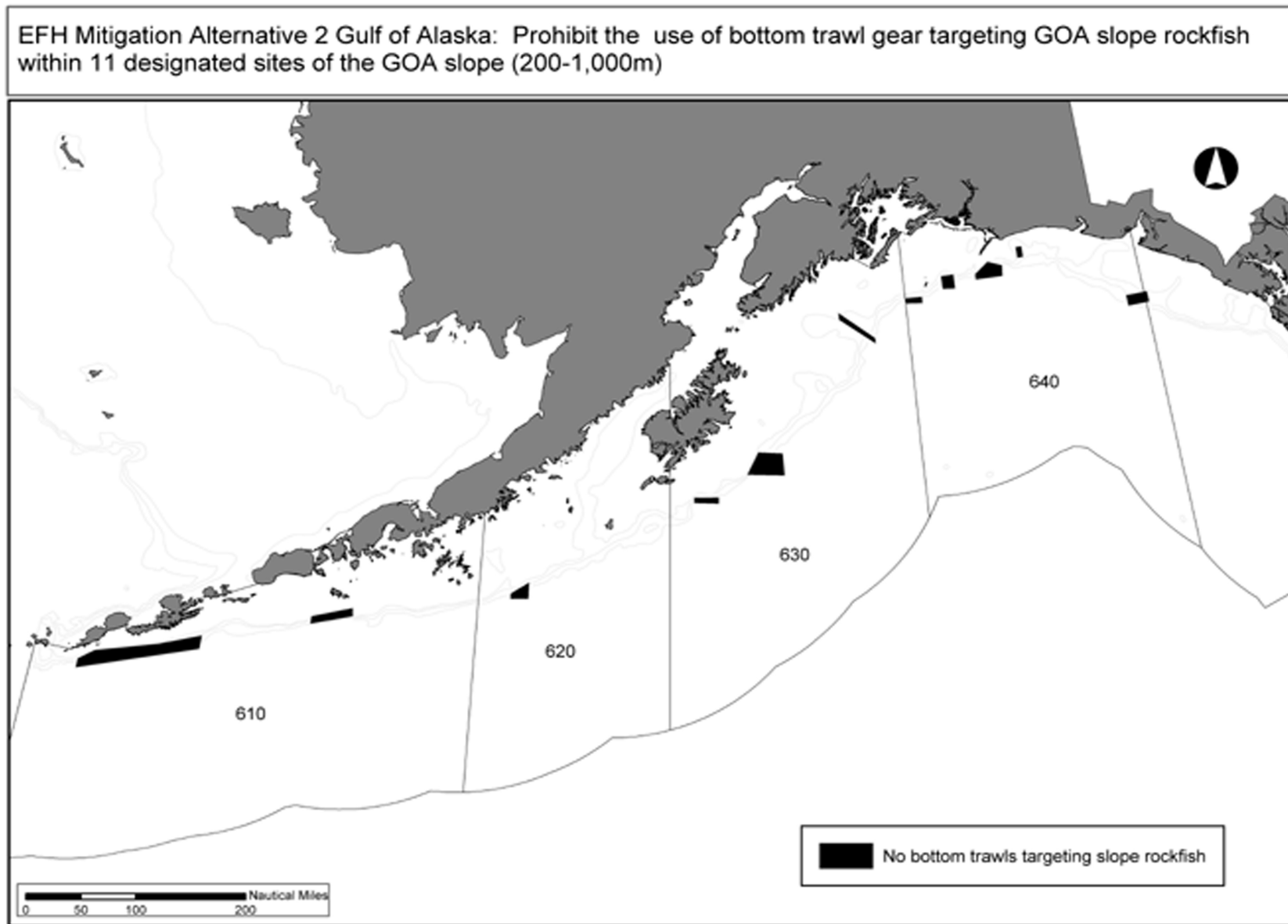


Figure 2-42. Alternative 3: Upper Slope Bottom Trawl Closures

EFH Mitigation Alternative 3 Gulf of Alaska: Prohibit the use of bottom trawl gear targeting GOA slope rockfish on the GOA slope (200-1,000m)

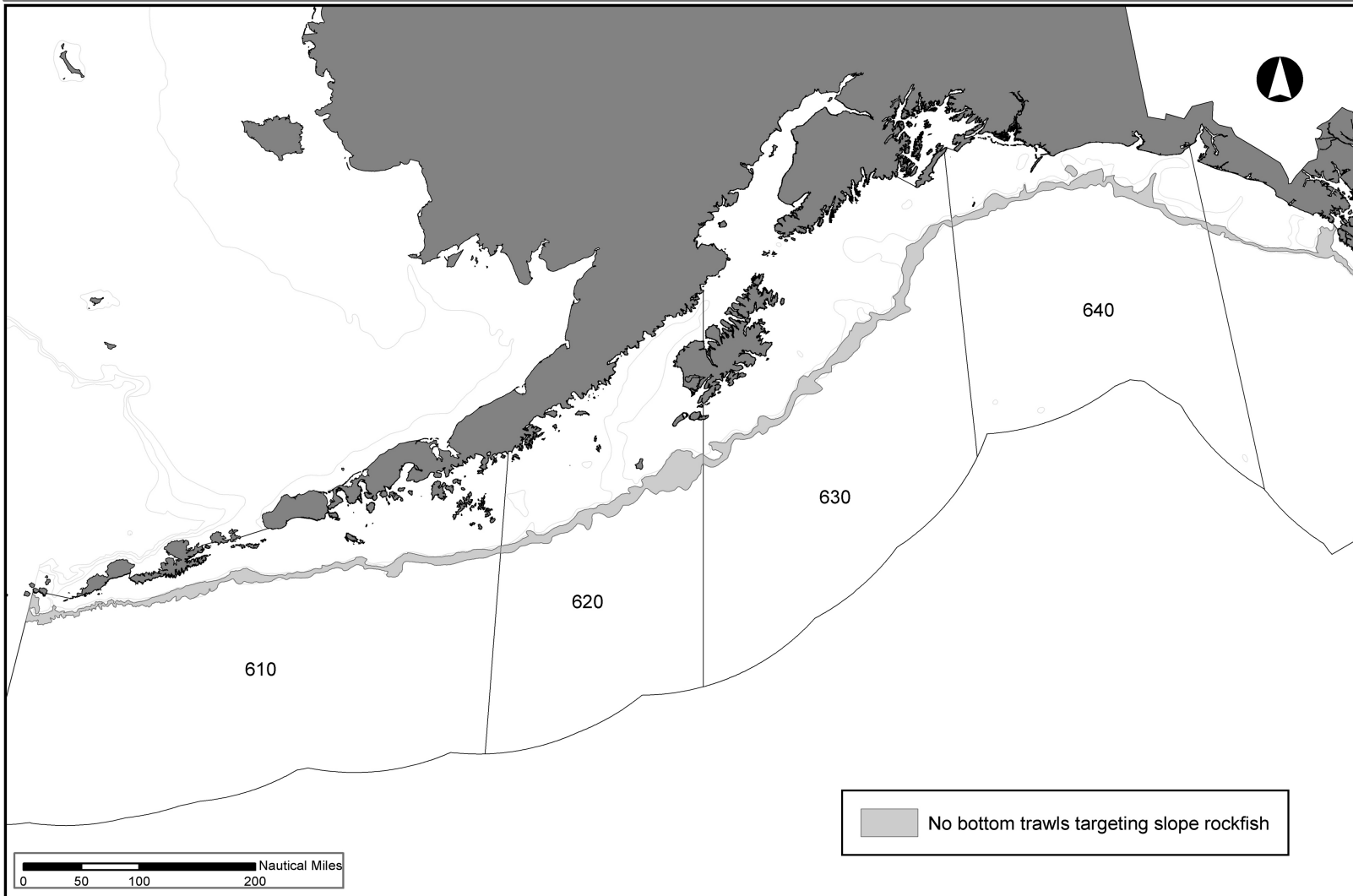


Figure 2-43. Alternative 4: Bering Sea Open/Closed Areas

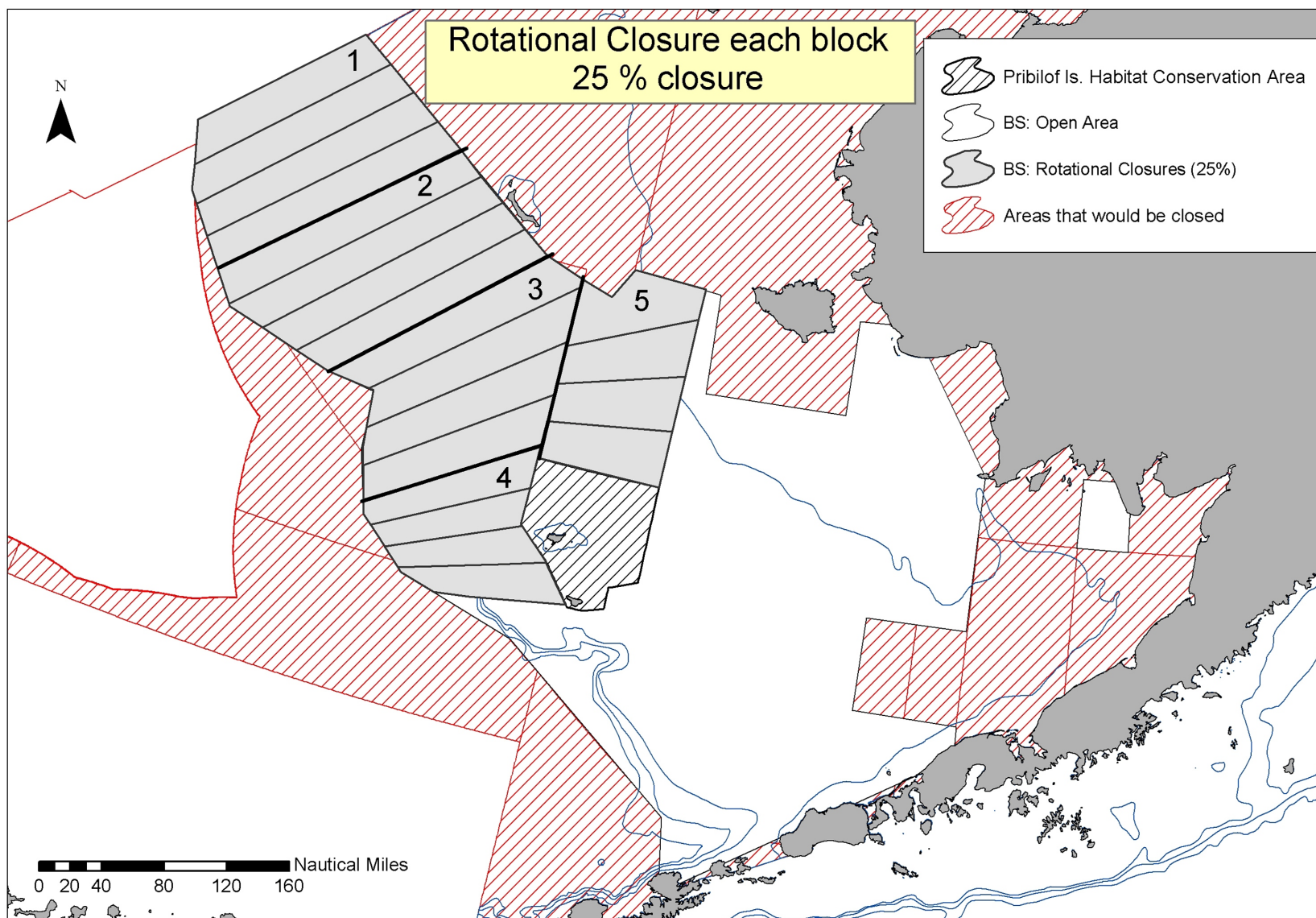


Figure 2-44. Diagram of Trawl Gear

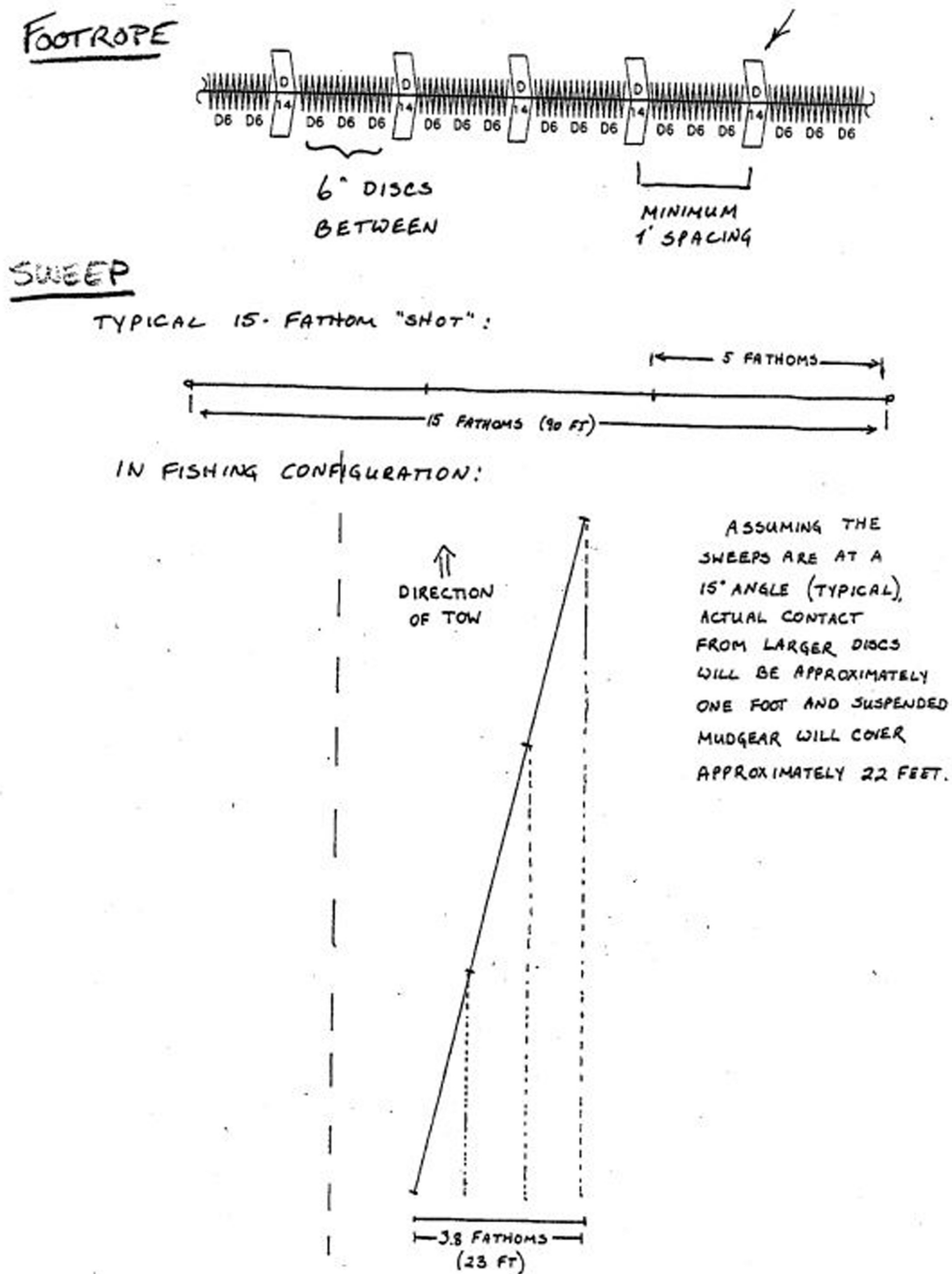


Figure 2-45. Alternative 4: Aleutian Islands Closure Areas

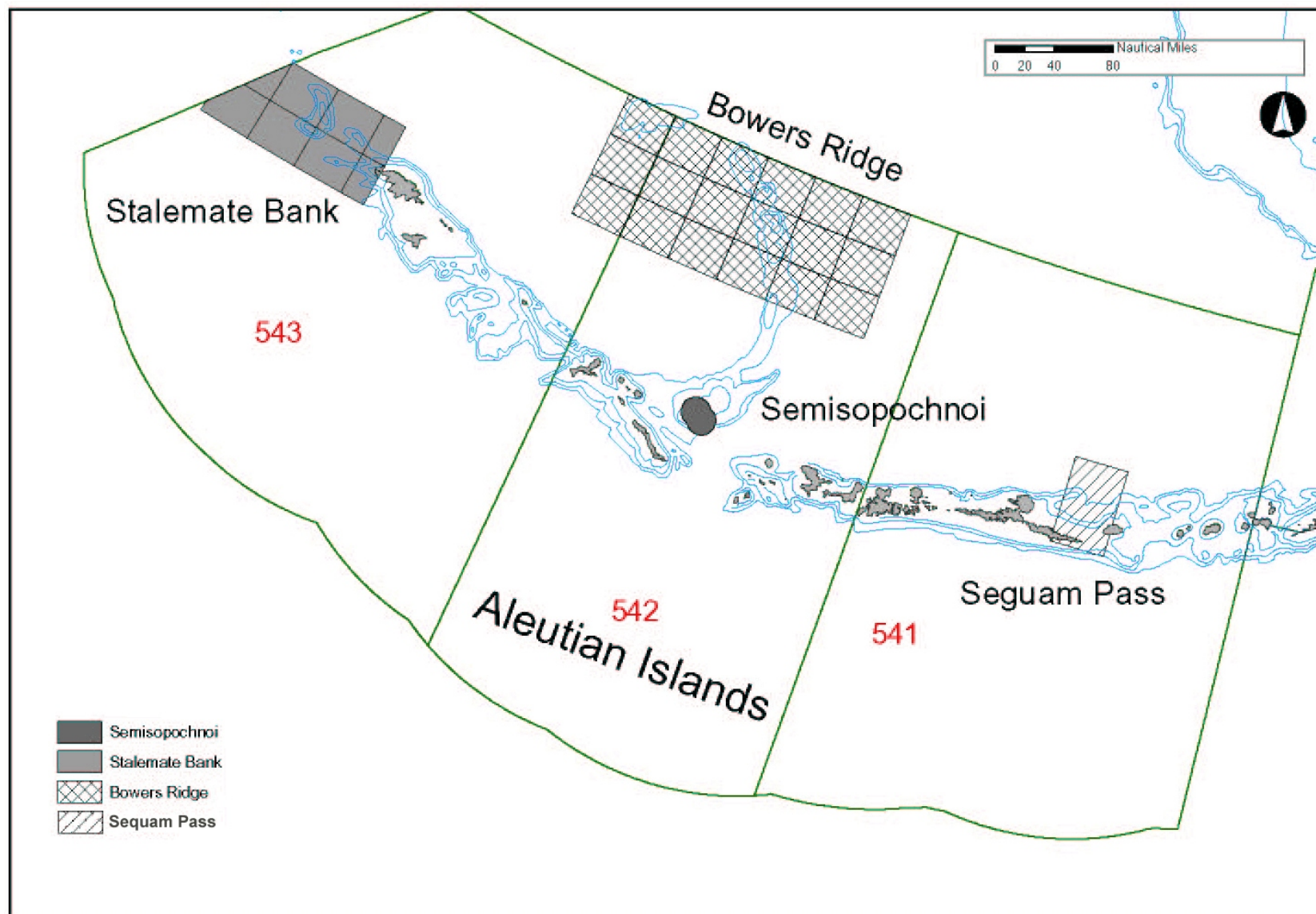


Figure 2-46. Alternative 4: GOA Closure Areas

EFH Mitigation Alternative 4 Gulf of Alaska: Prohibit the use of bottom trawl gear targeting GOA slope rockfish within 11 designated sites of the GOA slope (200-1,000m)

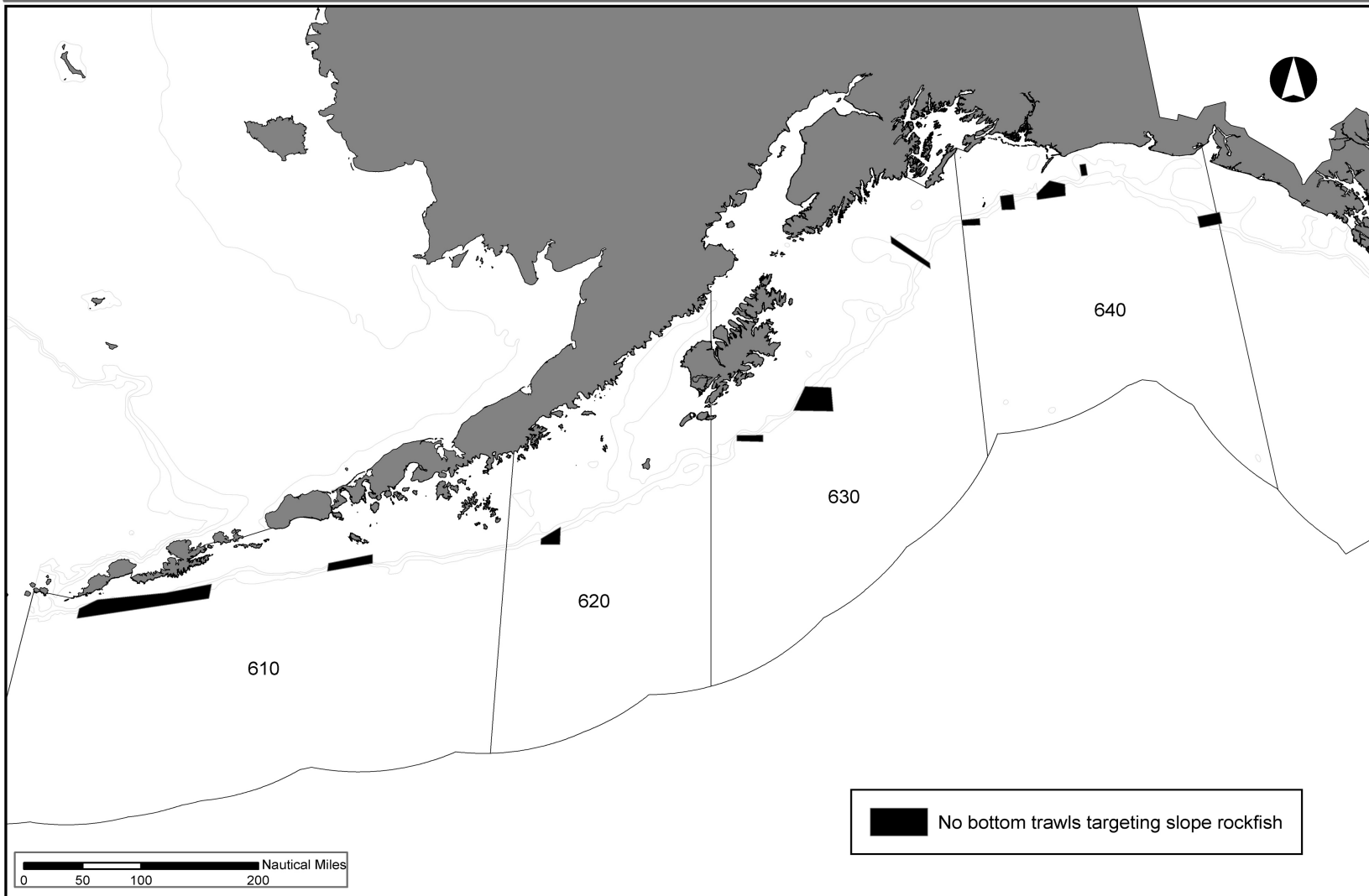


Figure 2-47. Alternatives 5A and 5B: GOA Closure Areas

EFH Mitigation Alternative 5 Gulf of Alaska: Prohibit the use of bottom trawl gear for all groundfish fisheries on 10 designated sites of the GOA slope (200-1,000m). Additionally, prohibit the use of bottom trawls for targeting GOA slope rockfish on the GOA slope (200-1,000m)

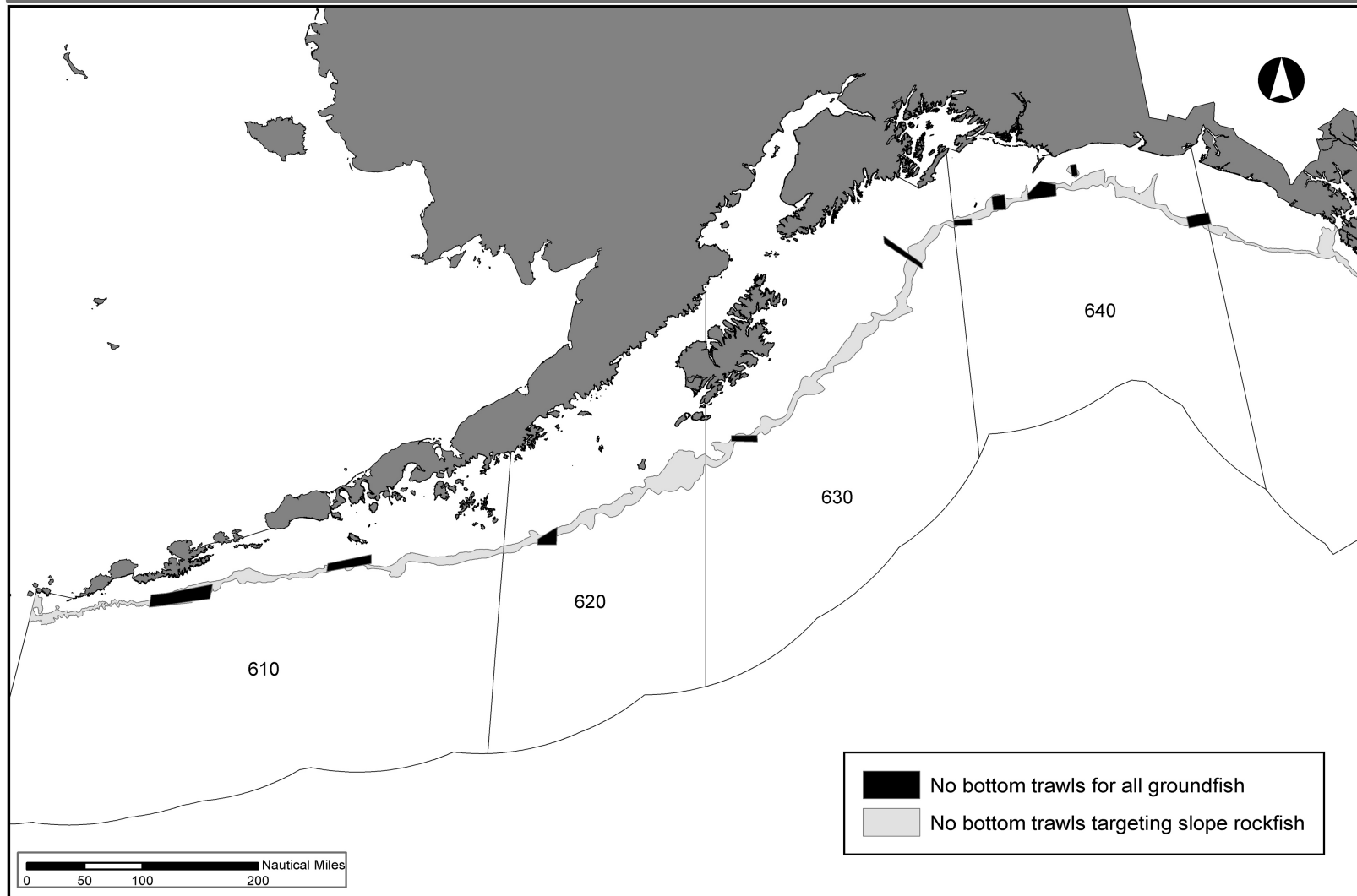


Figure 2-48. Alternative 5A: Aleutian Islands Closure Areas

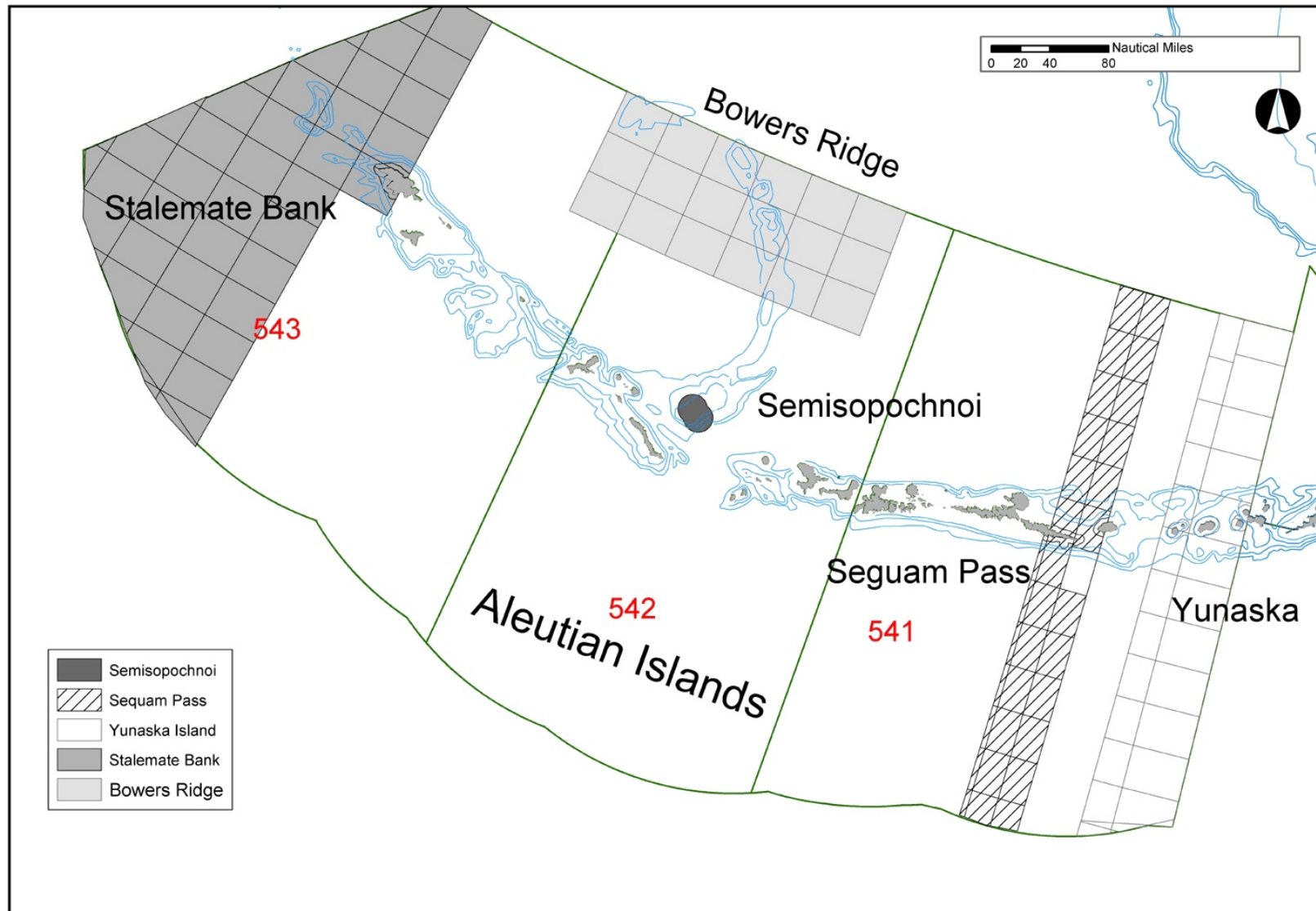


Figure 2-49. Alternatives 5A and 5B: Bering Sea Open/Closed Areas

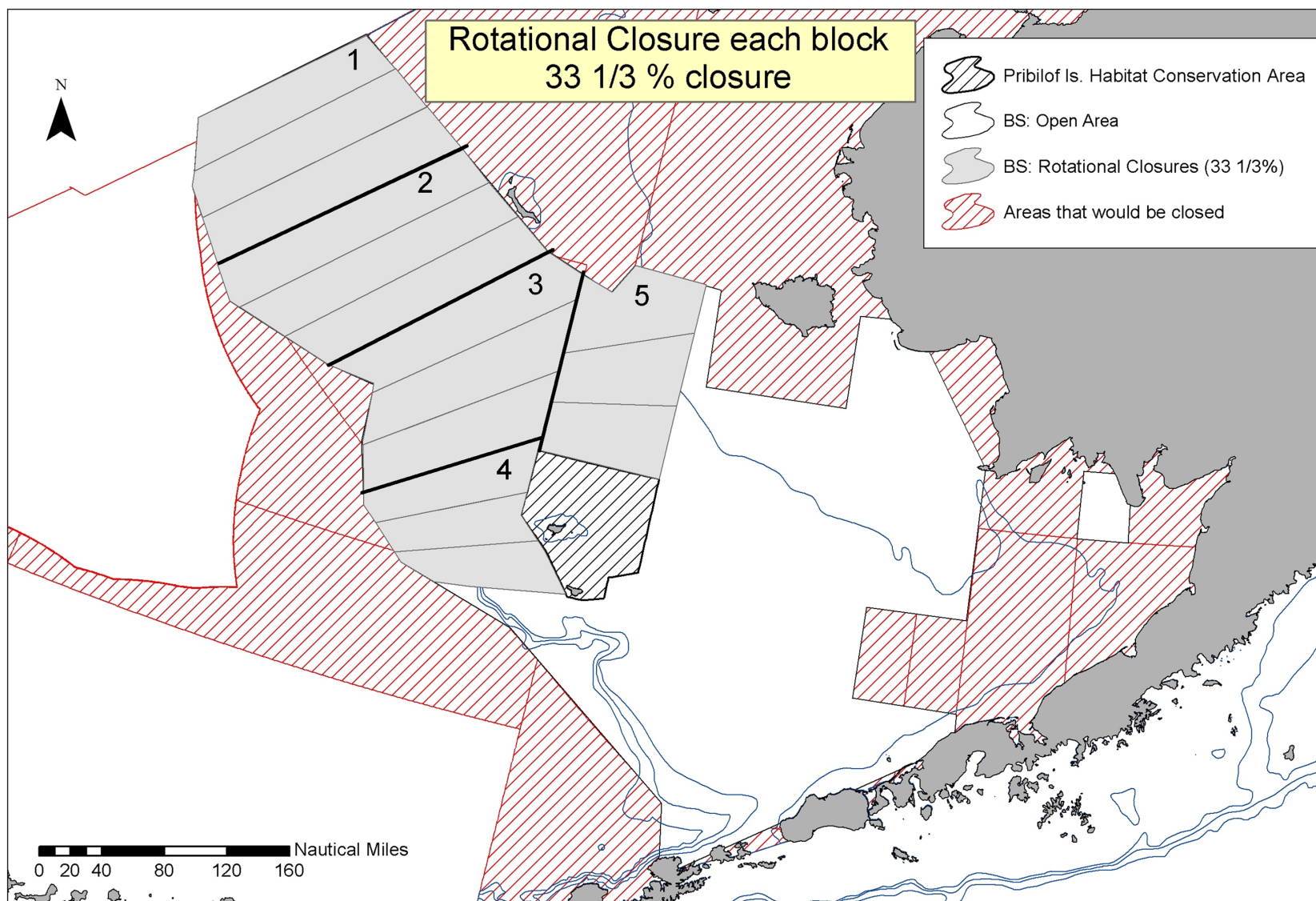


Figure 2-50. Alternative 5B: Aleutian Islands Open/Closed Areas

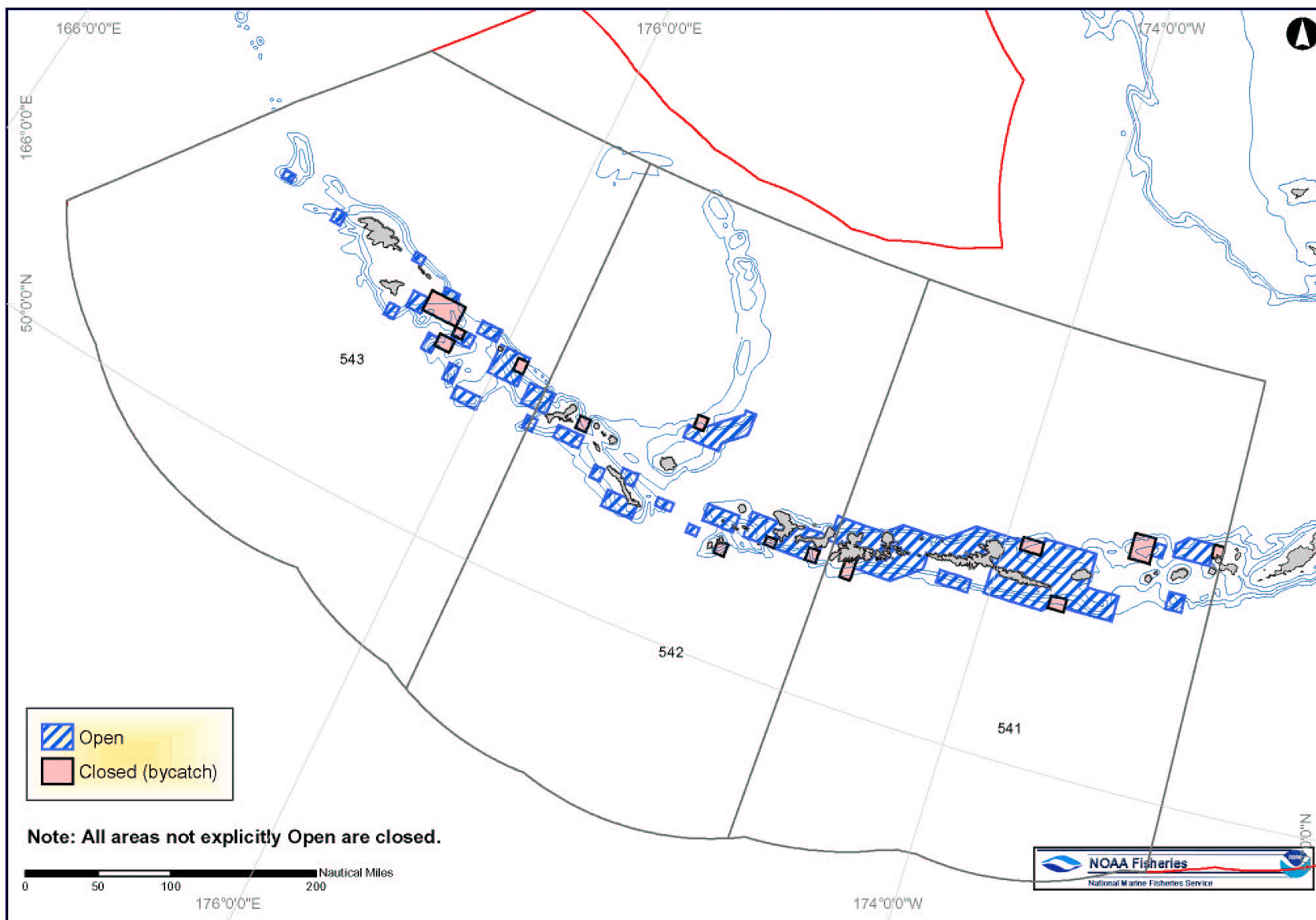


Figure 2-51. Alternative 6: Closure Areas (Gulf of Alaska)

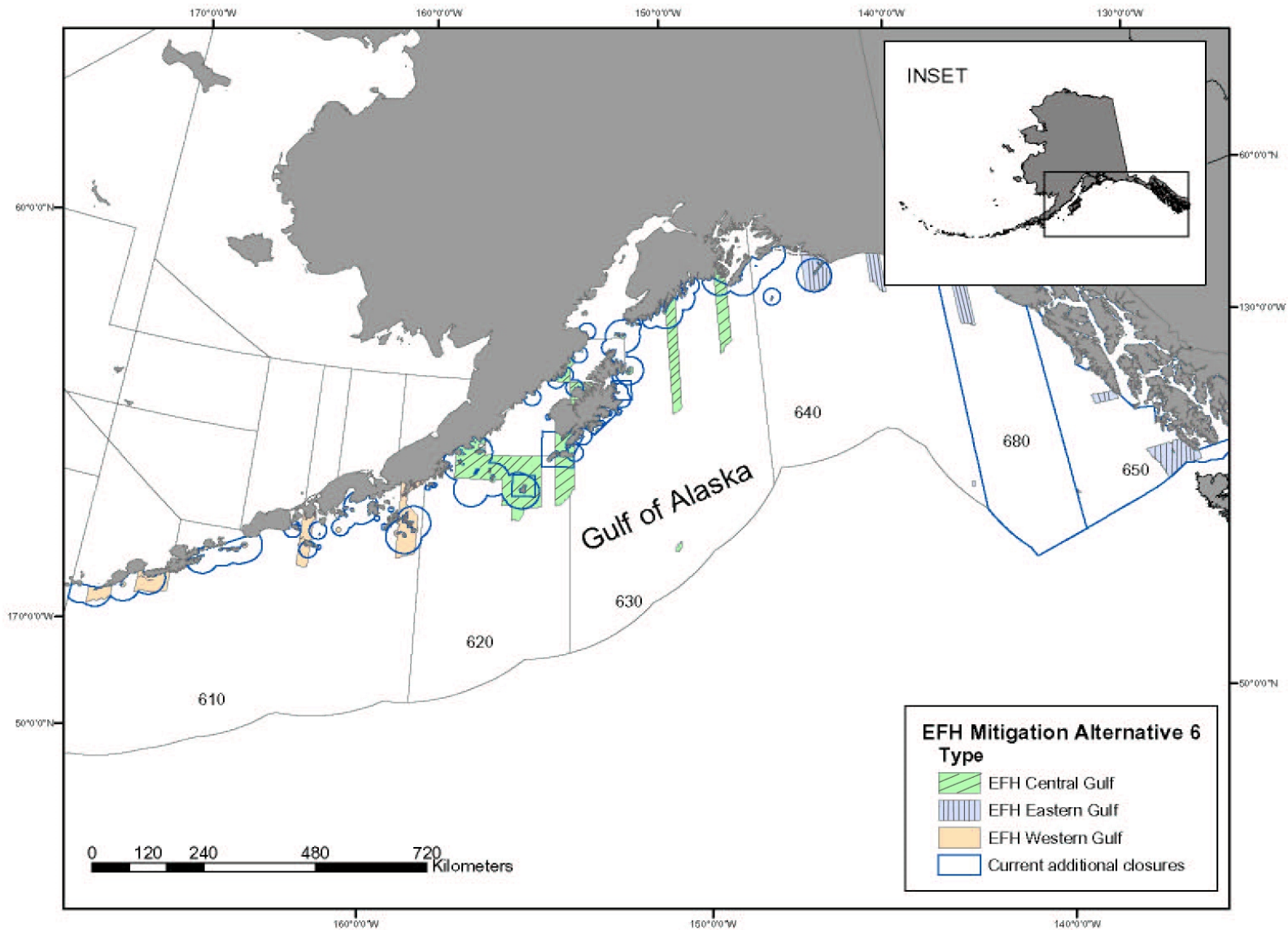


Figure 2-52. Alternative 6: Closure Areas (Aleutian Islands)

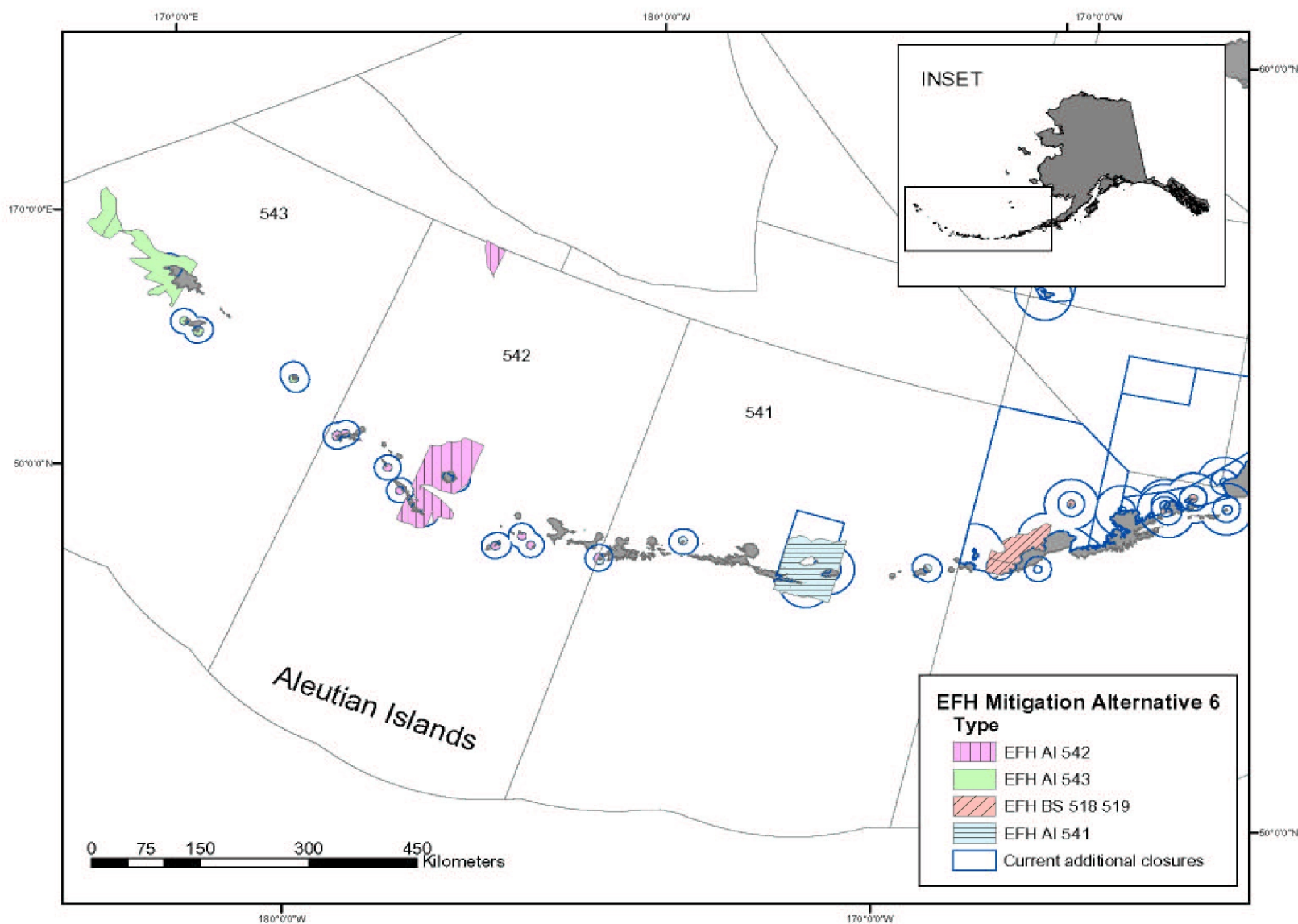


Figure 2-53. Alternative 6: Closure Areas (Bering Sea)

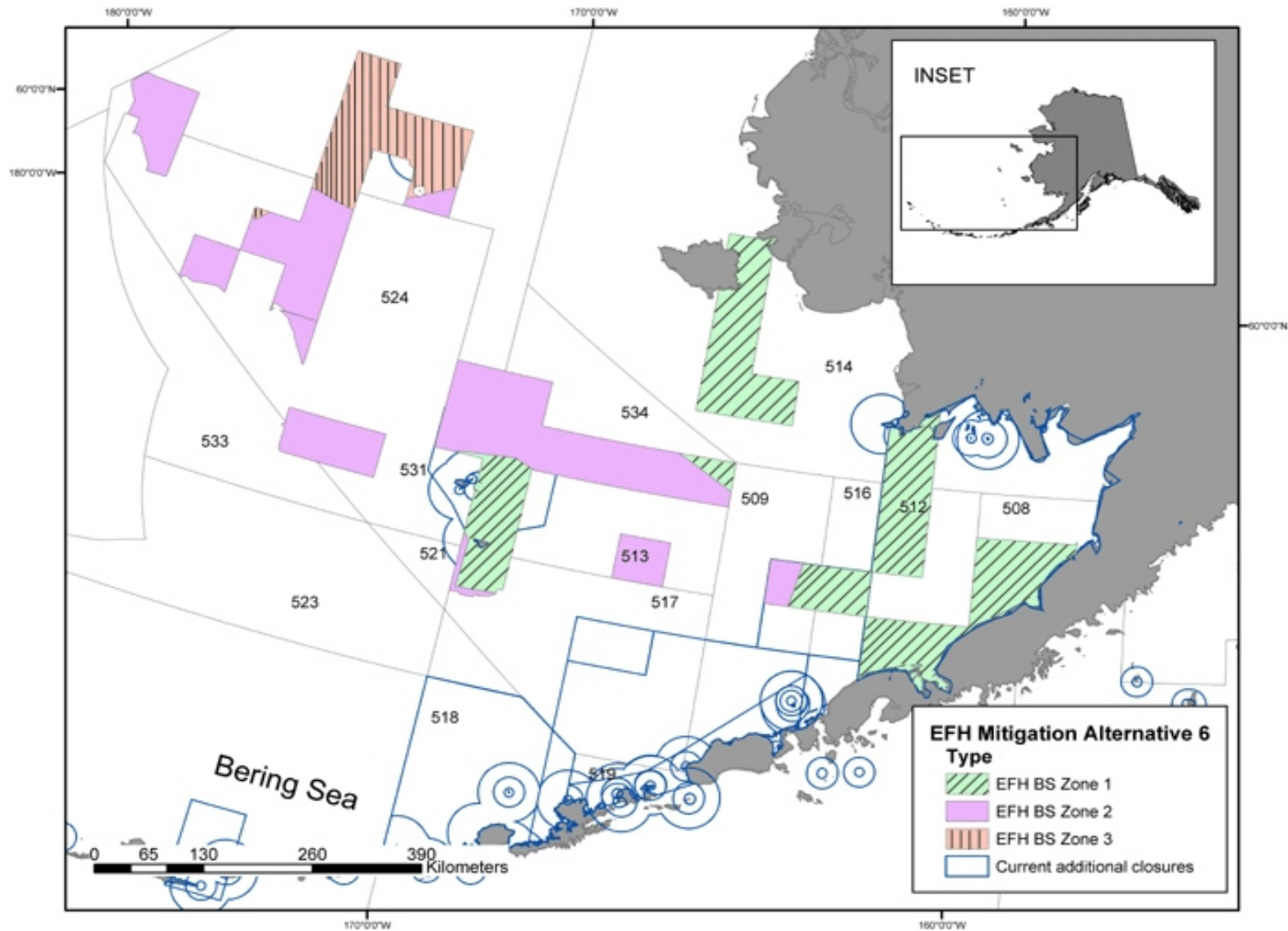
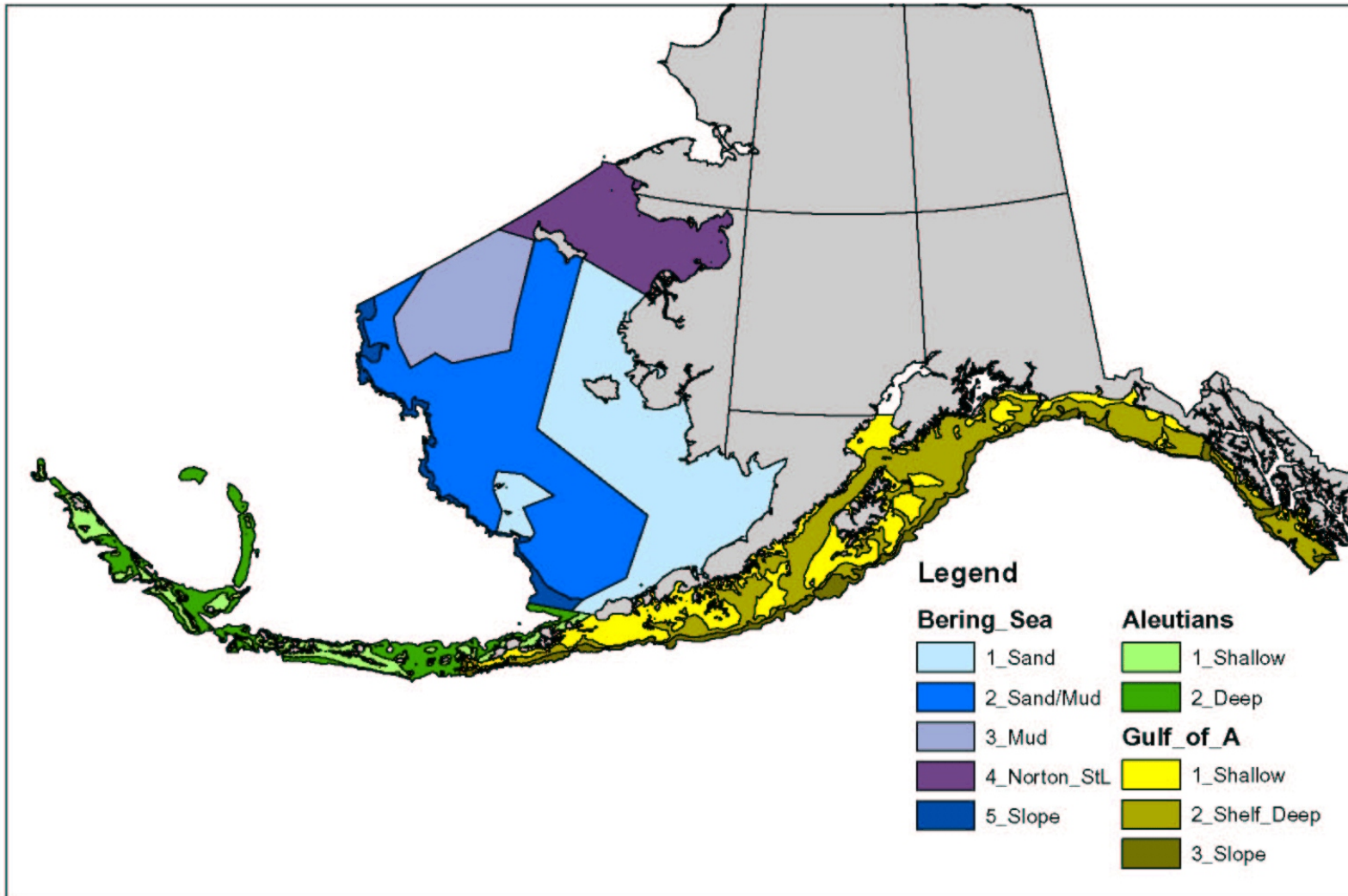
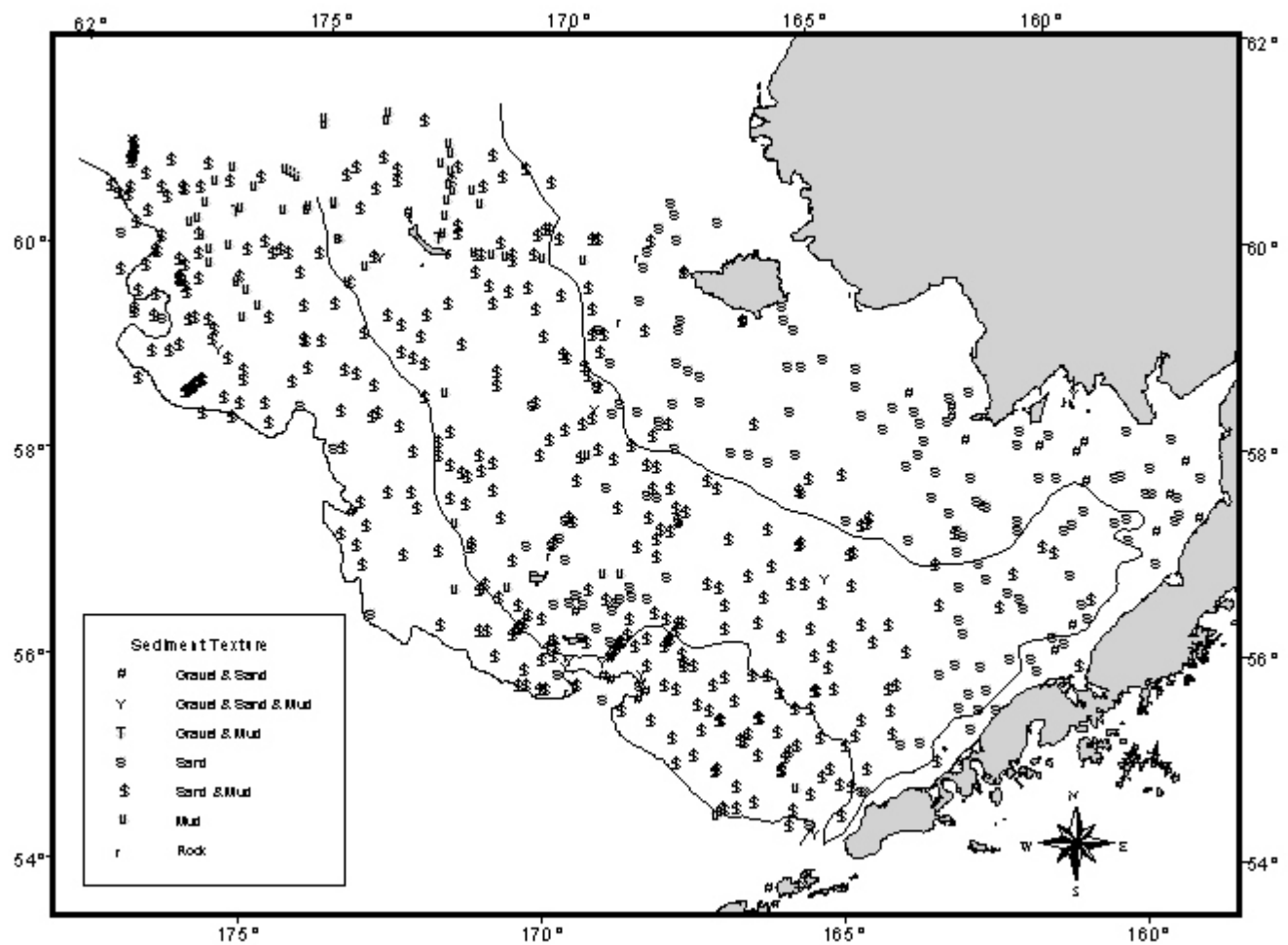


Figure 3.1-1. Surficial sediment textural characteristics according to Naidu (1988) for the portion of the continental shelf which is the focus of the EBSSSED database. The number-code of each polygon indicates Folk's (1954) sorting level from key.



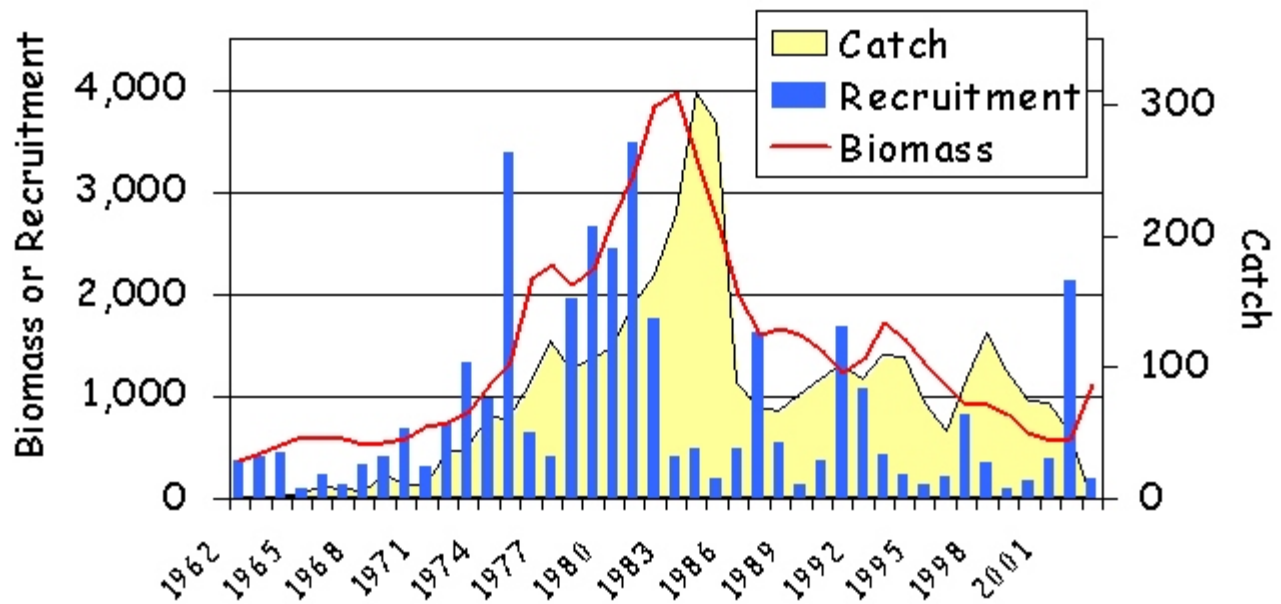
Source: Naidu, 1988

Figure 3.1-2. Distribution of Bering Sea Sediments



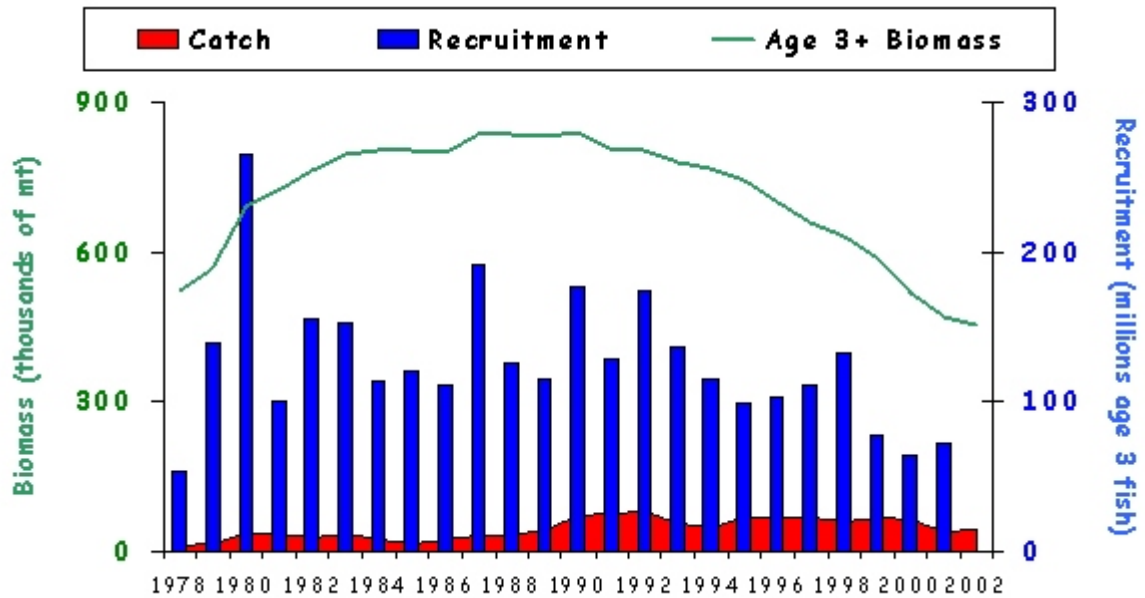
Source: Smith and McConnaughey 1999

Figure 3.2-1. GOA Walleye Pollock - Estimated Biomass (in metric tons)



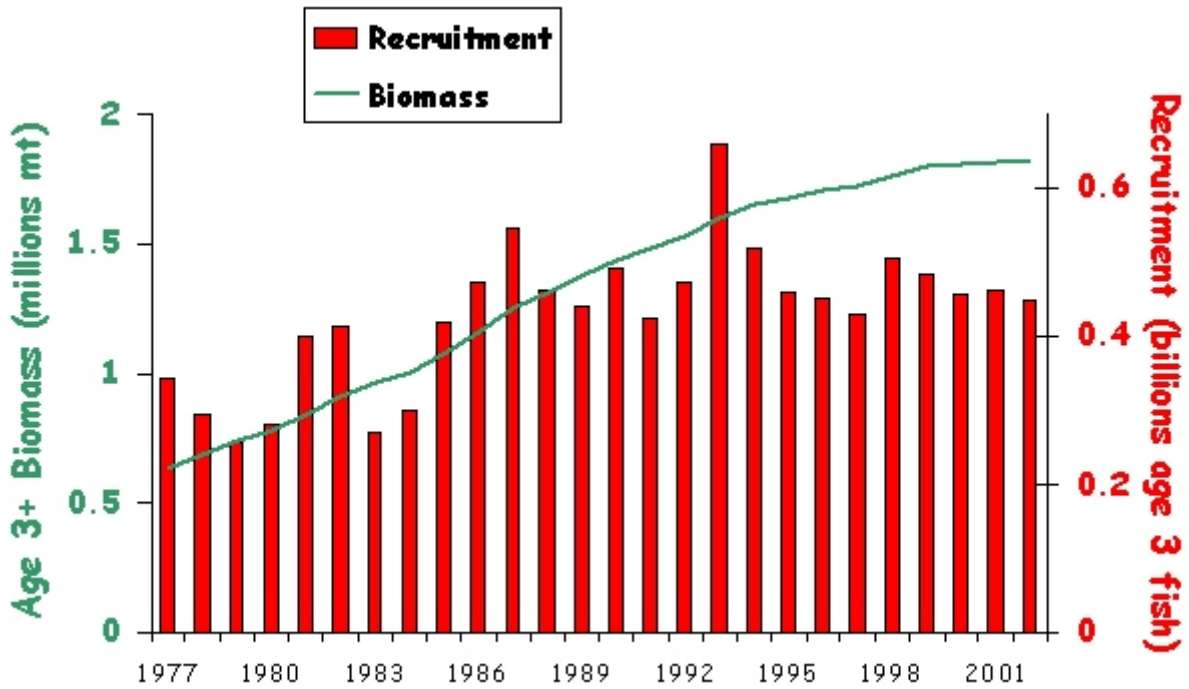
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/GOAPlanTeamDec2002.ppt>

Figure 3.2-2. GOA Pacific Cod - Estimated Biomass



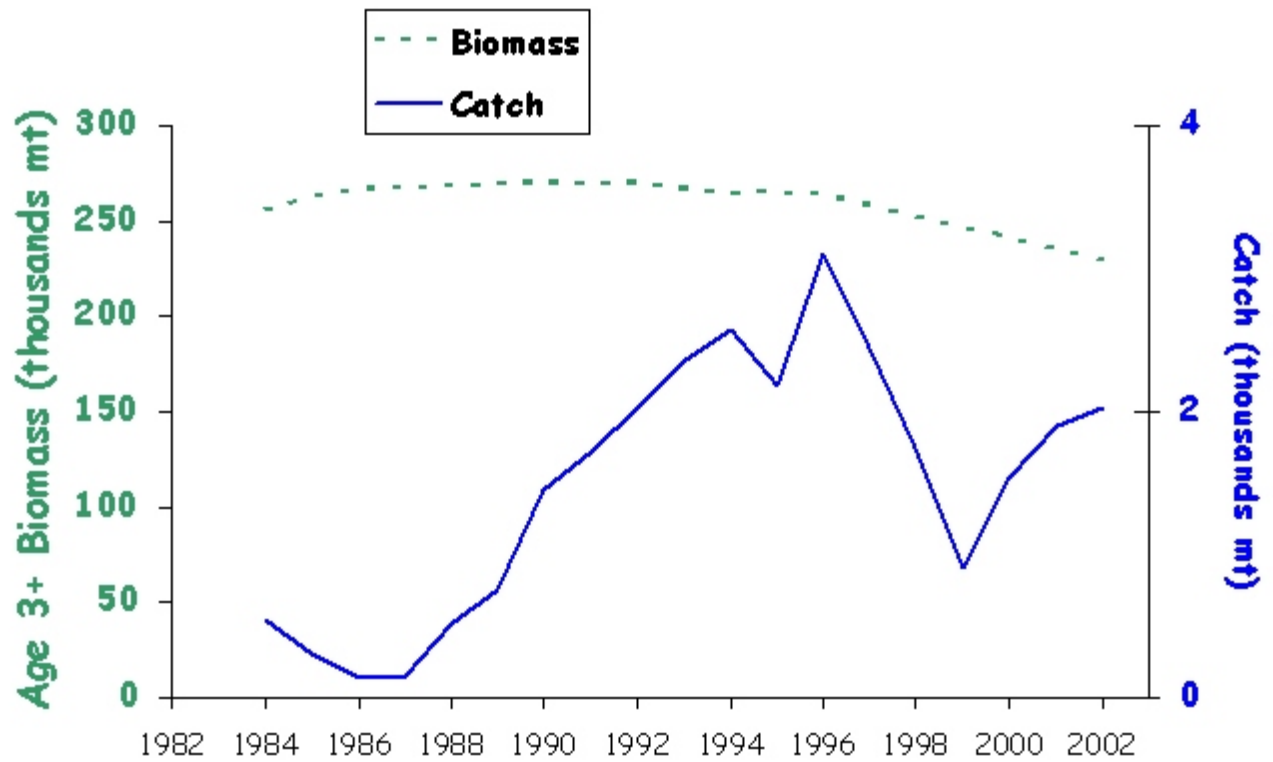
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Figure 3.2-3. GOA Arrowtooth Flounder - Estimated Biomass



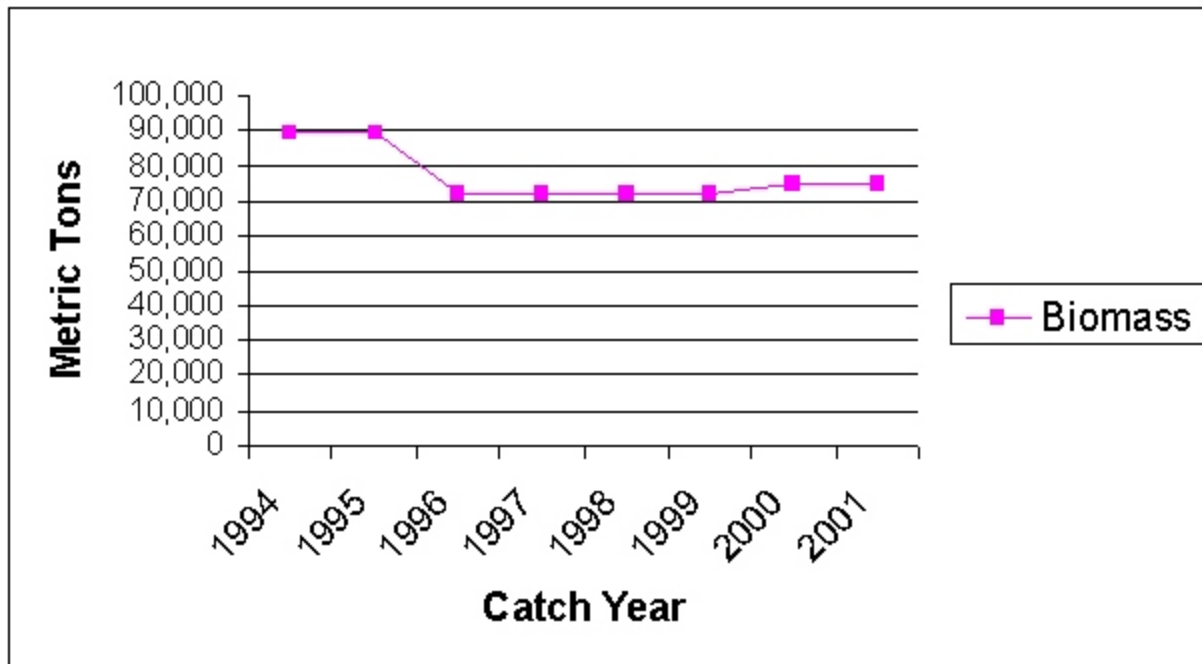
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Figure 3.2-4. GOA Flathead Sole - Estimated Biomass



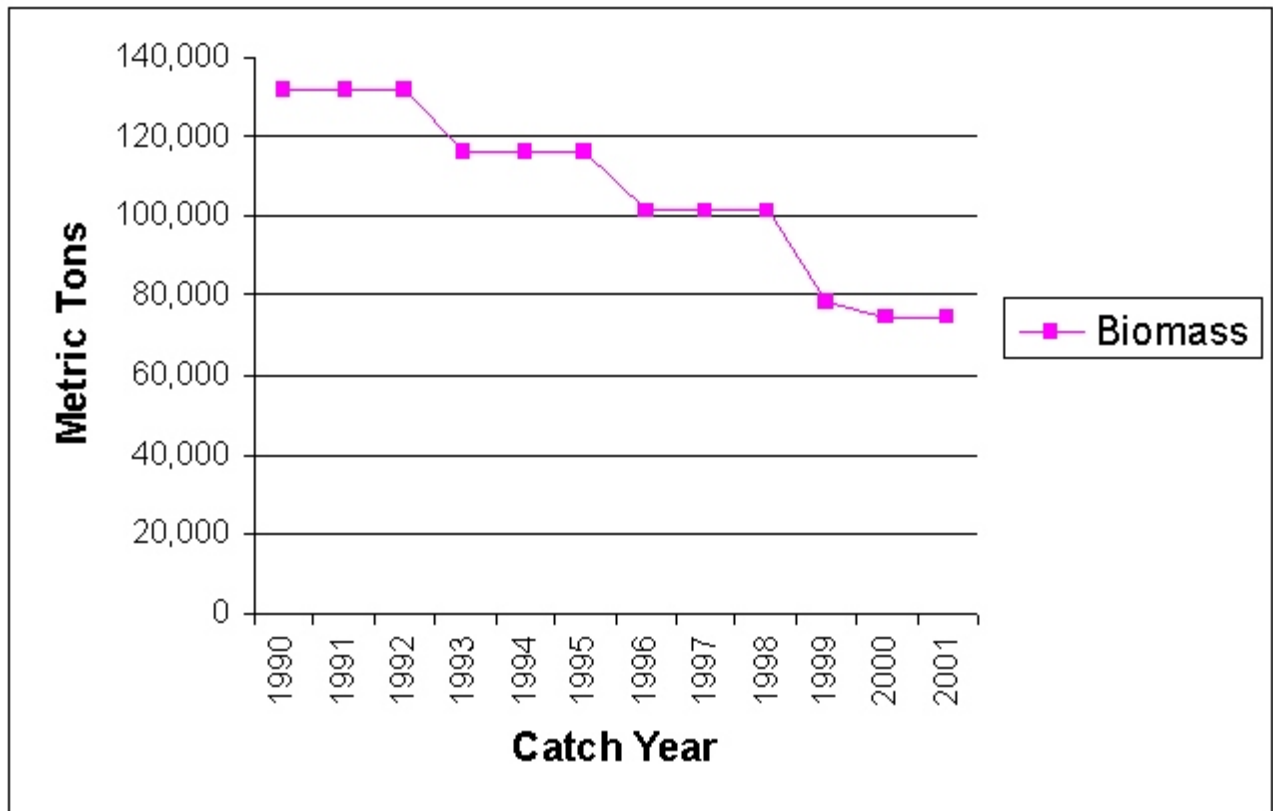
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Figure 3.2-5. GOA Rex Sole - Estimated Biomass



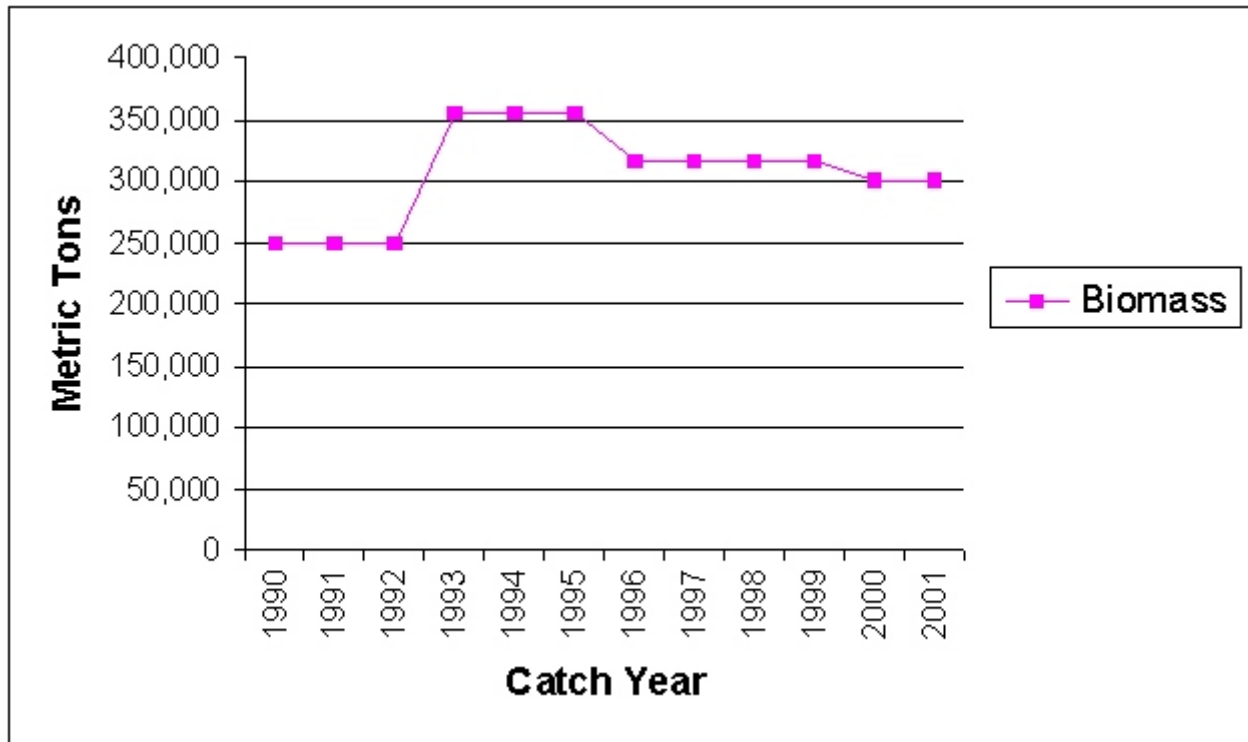
Source: DiCosimo and Kimball 2001

Figure 3.2-6. GOA Deep Water Flatfish - Estimated Biomass



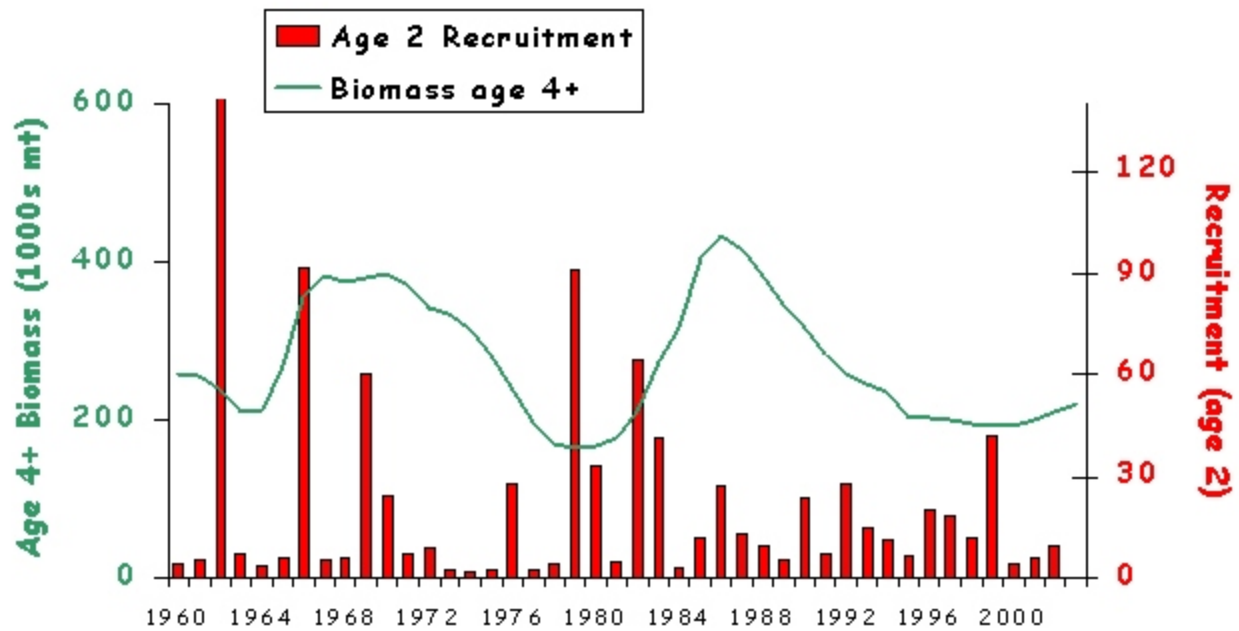
Source: DiCosimo and Kimball 2001

Figure 3.2-7. GOA Shallow Water Flatfish - Estimated Biomass



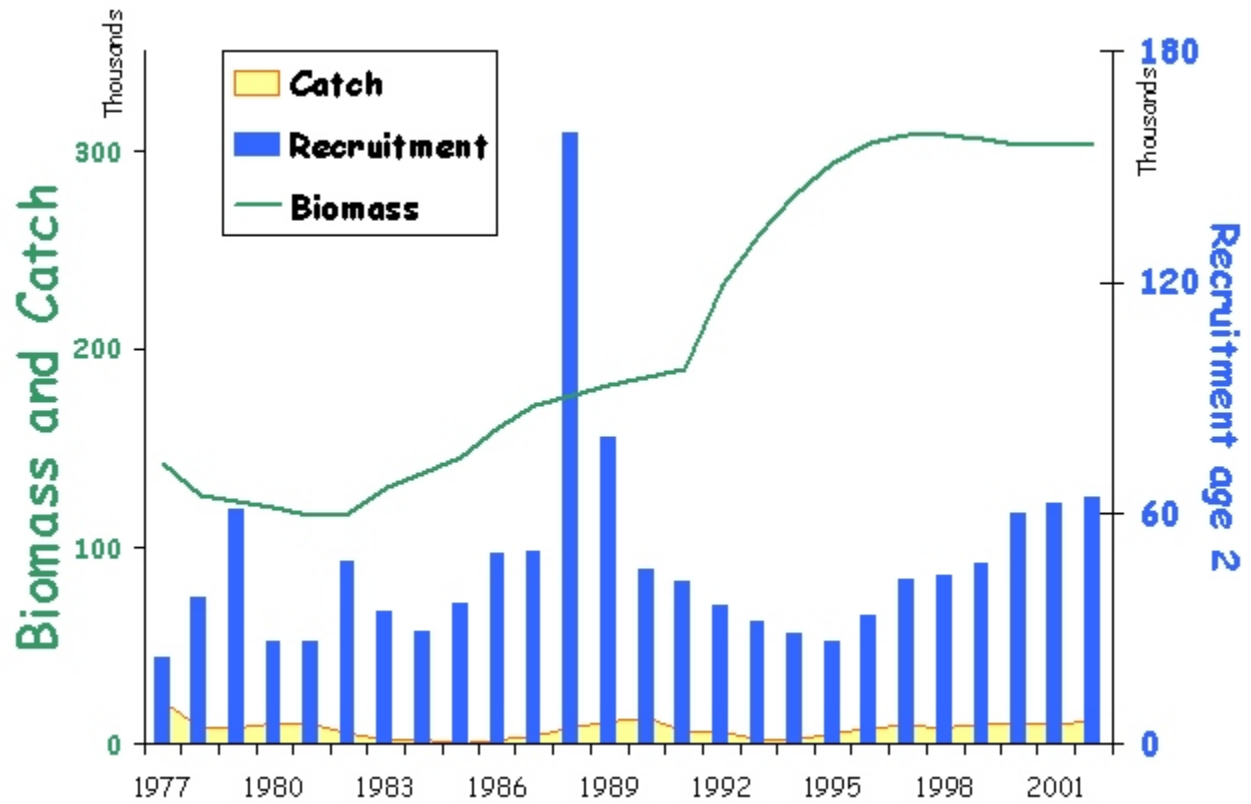
Source: DiCosimo and Kimball 2001

Figure 3.2-8. GOA Sablefish - Estimated Biomass



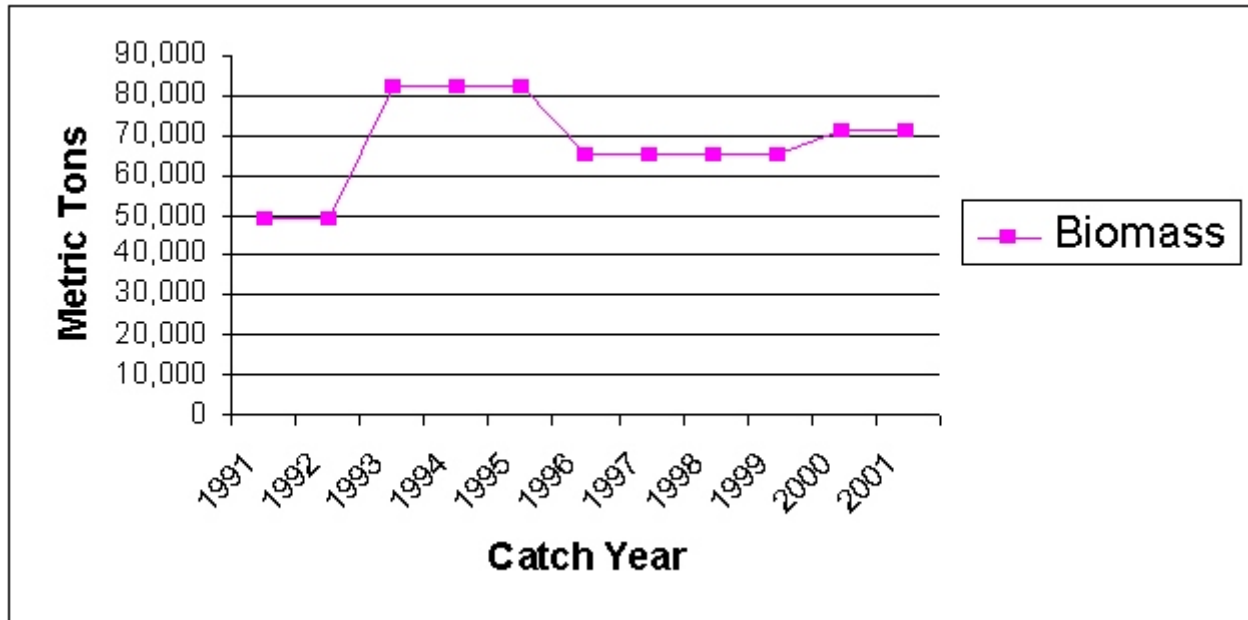
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/GOAPlanTeamDec2002.ppt>

Figure 3.2-9. GOA Pacific Ocean Perch - Estimated Biomass (thousands of metric tons)



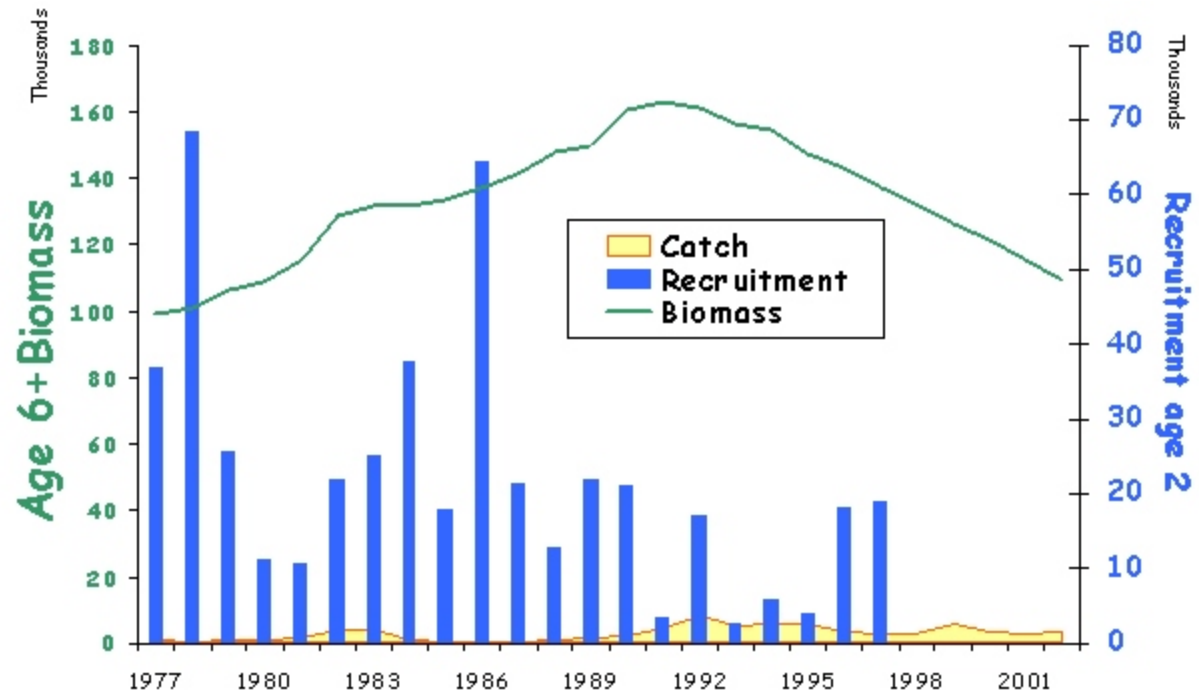
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/GOAPlanTeamDec2002.ppt>

Figure 3.2-10. GOA Shortraker/Rougheyeye Rockfish - Estimated Biomass



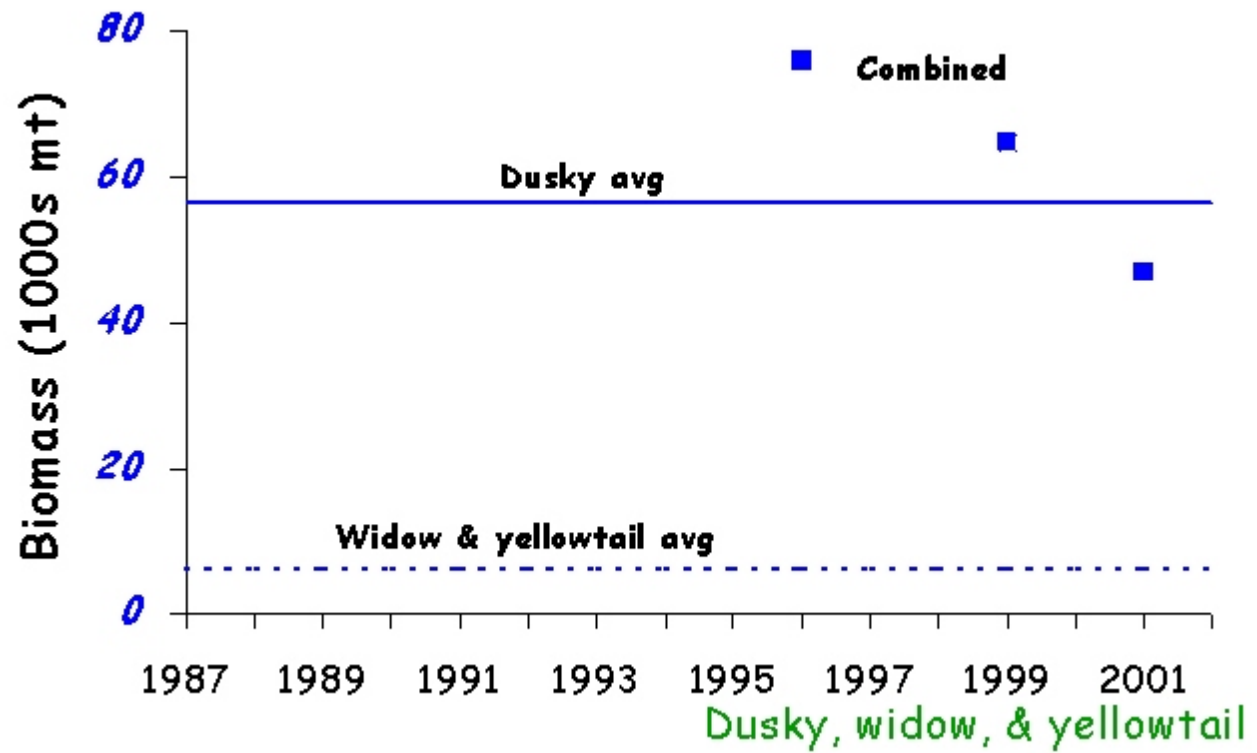
Source: DiCosimo and Kimball 2001

Figure 3.2-11. GOA Northern Rockfish - Estimated Biomass



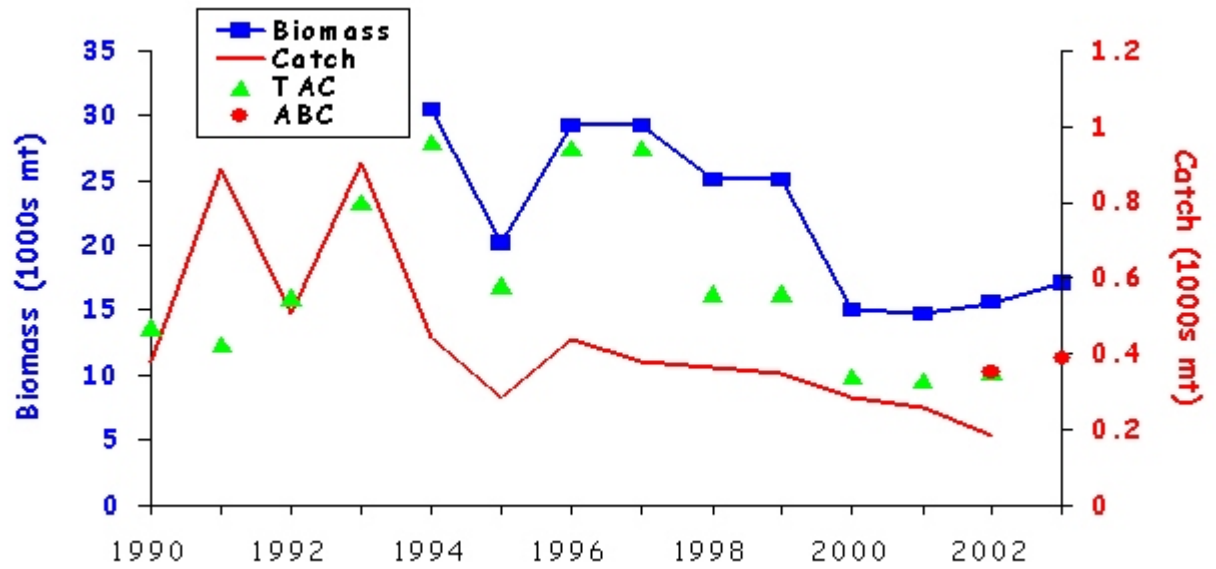
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/GOAPlanTeamDec2002.ppt>

Figure 3.2-12. GOA Pelagic Shelf Rockfish - Estimated Biomass



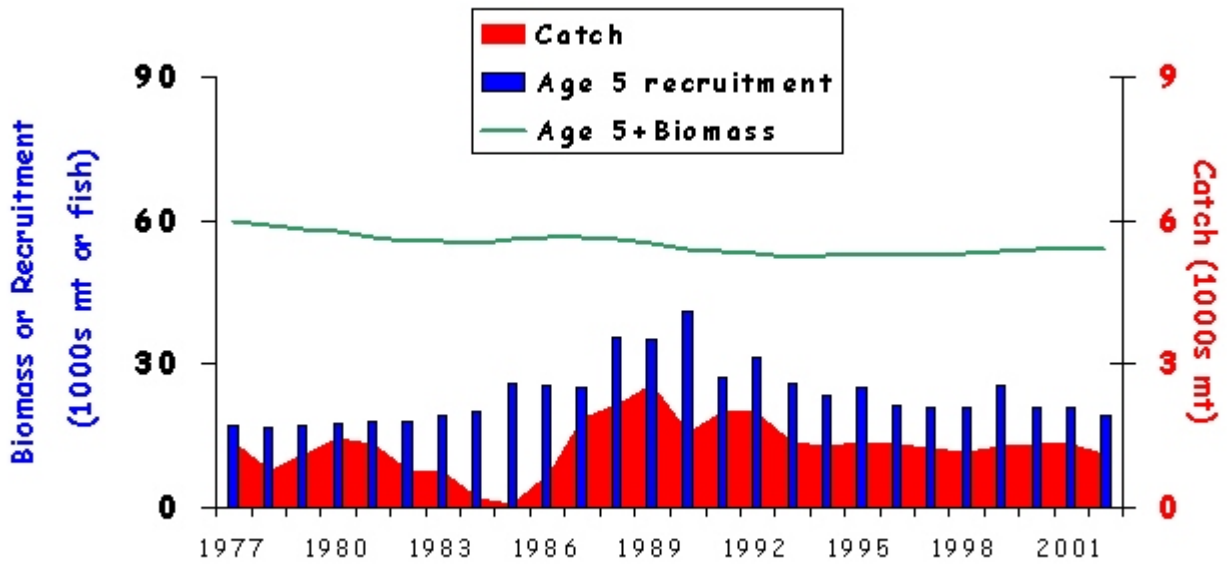
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Figure 3.2-13. GOA Demersal Shelf Rockfish - Estimated Biomass



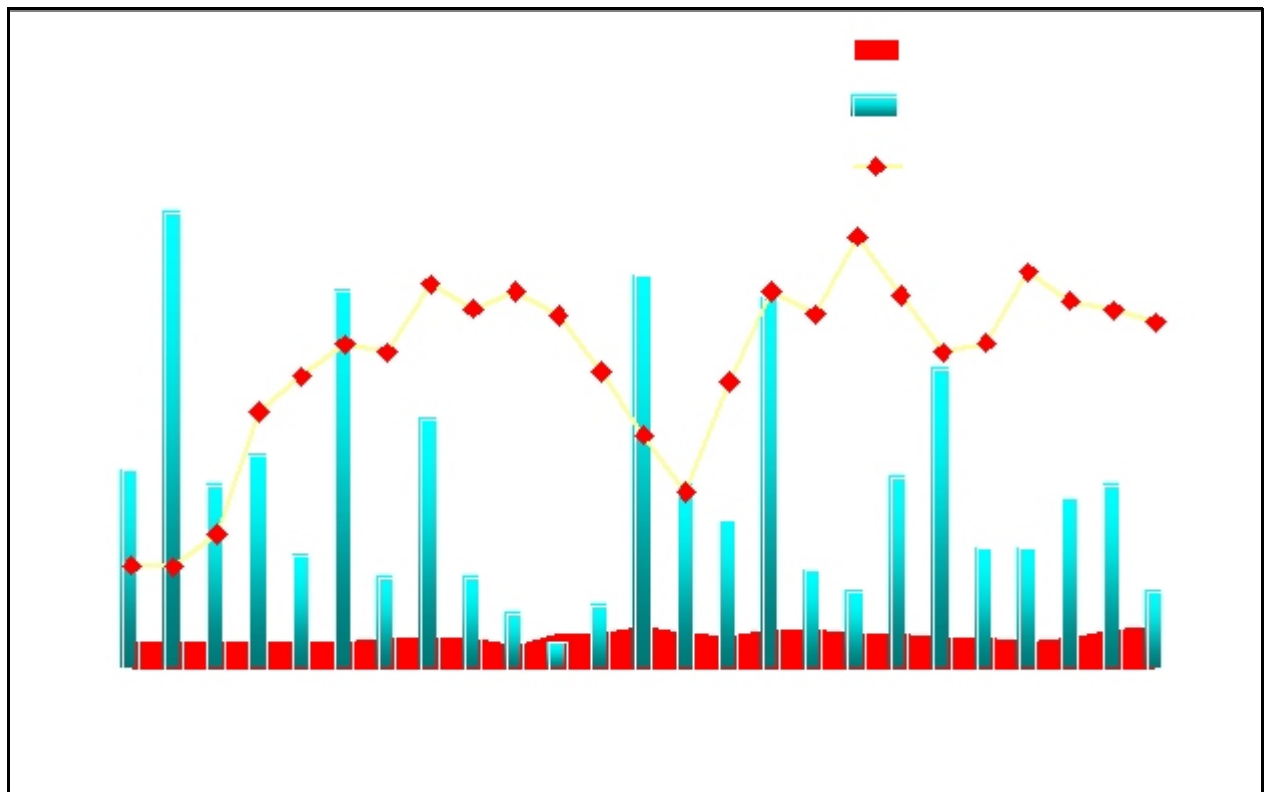
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Figure 3.2-14. GOA Thornyhead Rockfish - Estimated Biomass



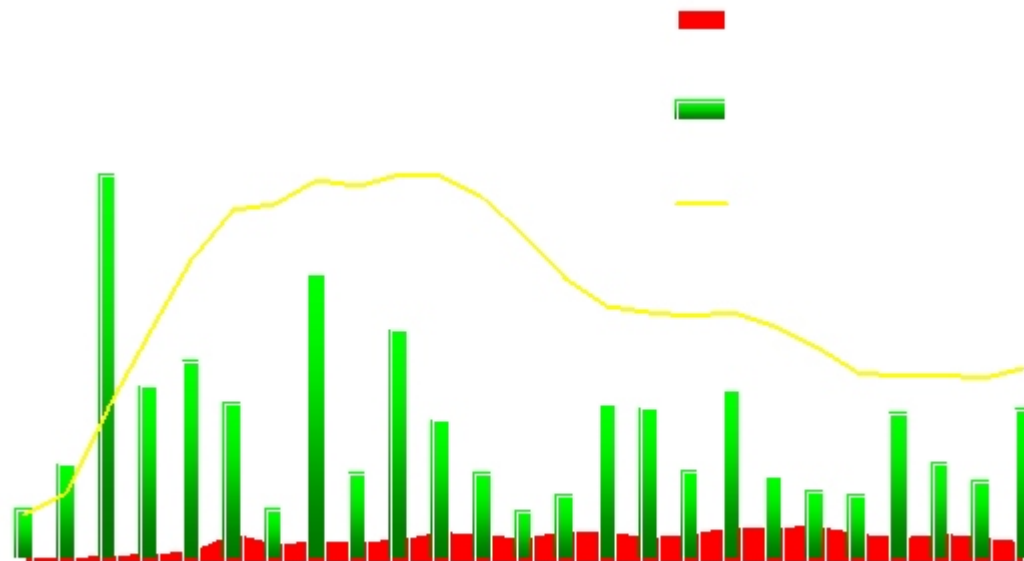
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/GOAPlanTeamDec2002.ppt>

Figure 3.2-15. BSAI Walleye Pollock - Estimated Biomass



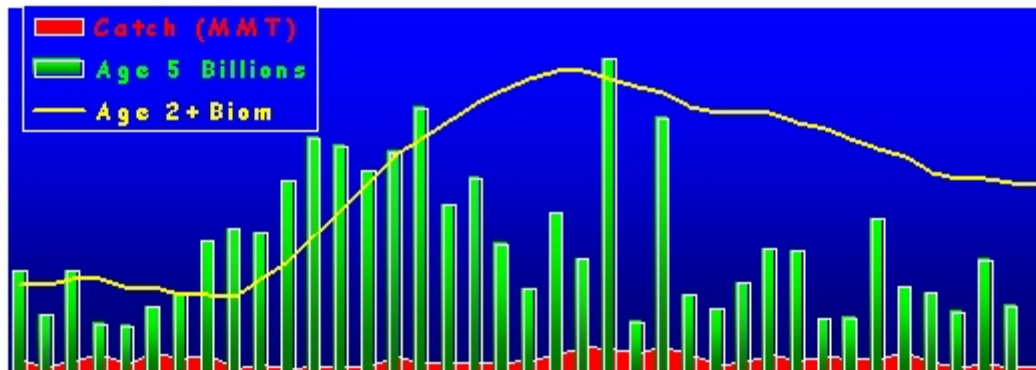
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-16. BSAI Pacific Cod - Estimated Biomass



Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPanTeamDec2002.ppt>

Figure 3.2-17. BSAI Yellowfin Sole - Estimated Biomass



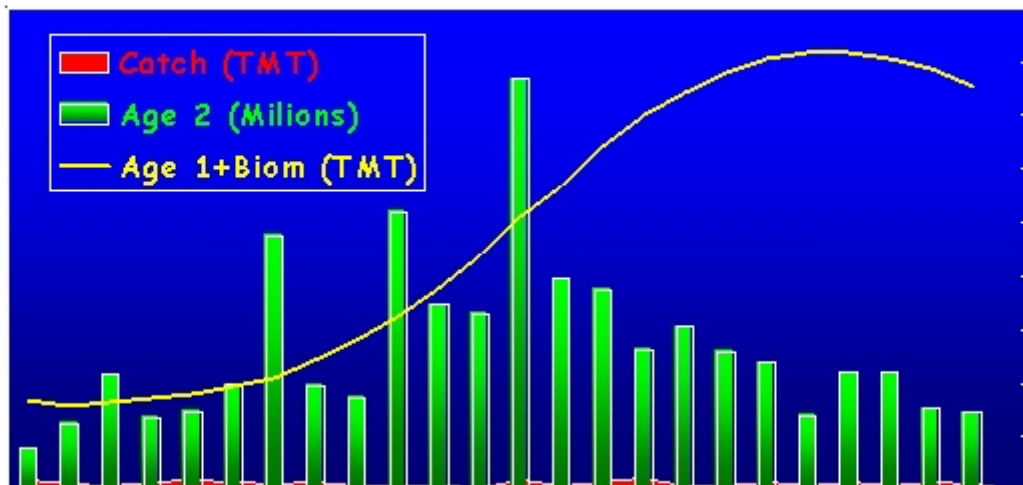
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-18. BSAI Greenland Turbot - Estimated Biomass



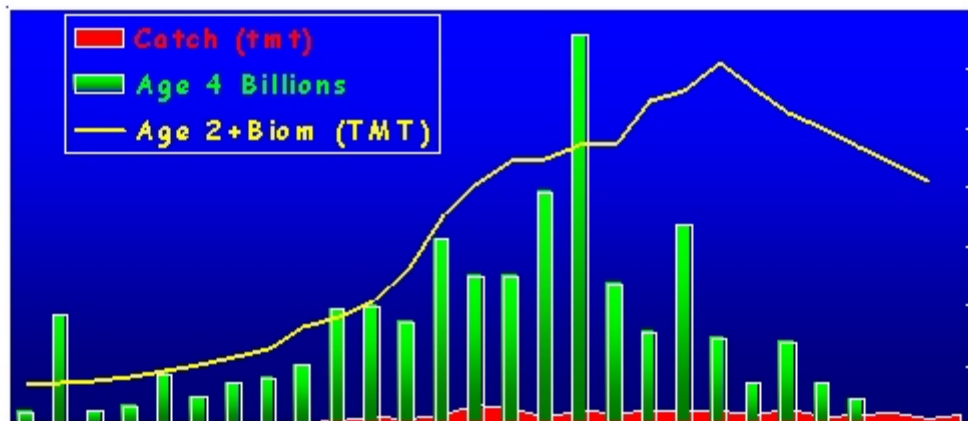
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPanTeamDec2002.ppt>

Figure 3.2-19. BSAI Arrowtooth Flounder



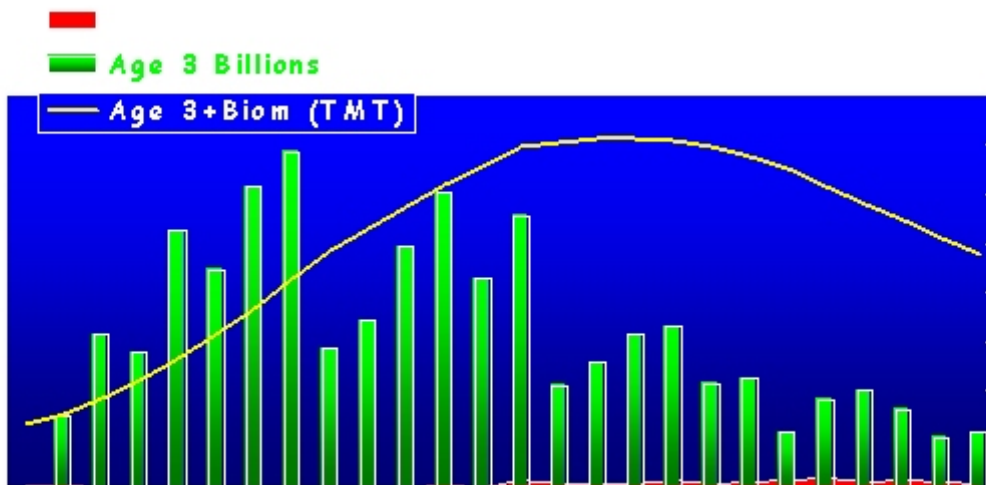
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-20. BSAI Rock Sole - Estimated Biomass



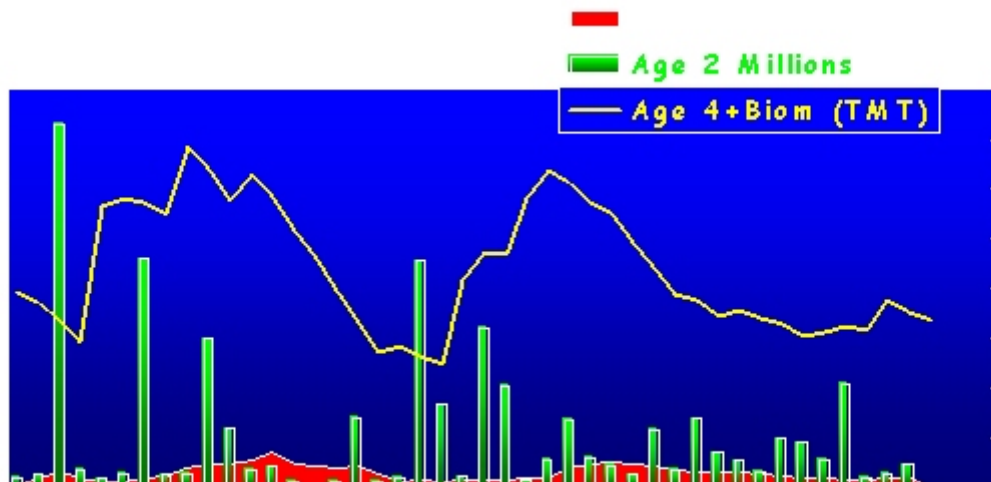
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-21. BSAI Flathead Sole - Estimated Biomass



Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-22. BSAI Sablefish - Estimated Biomass



Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-23. BSAI Pacific Ocean Perch - Estimated Biomass



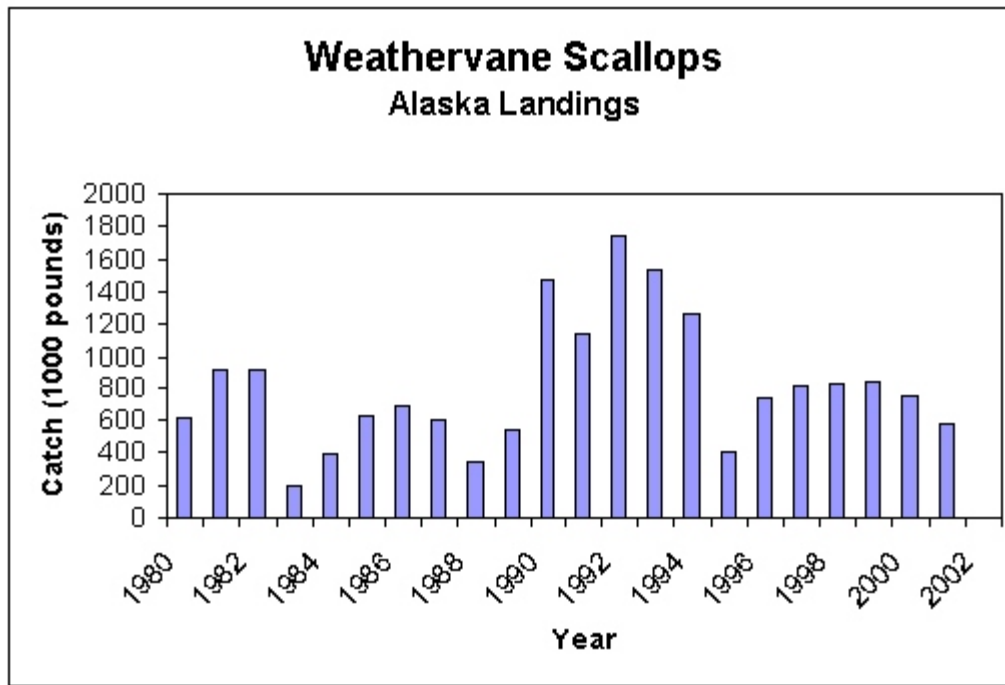
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-24. BSAI Atka Mackerel - Estimated Biomass



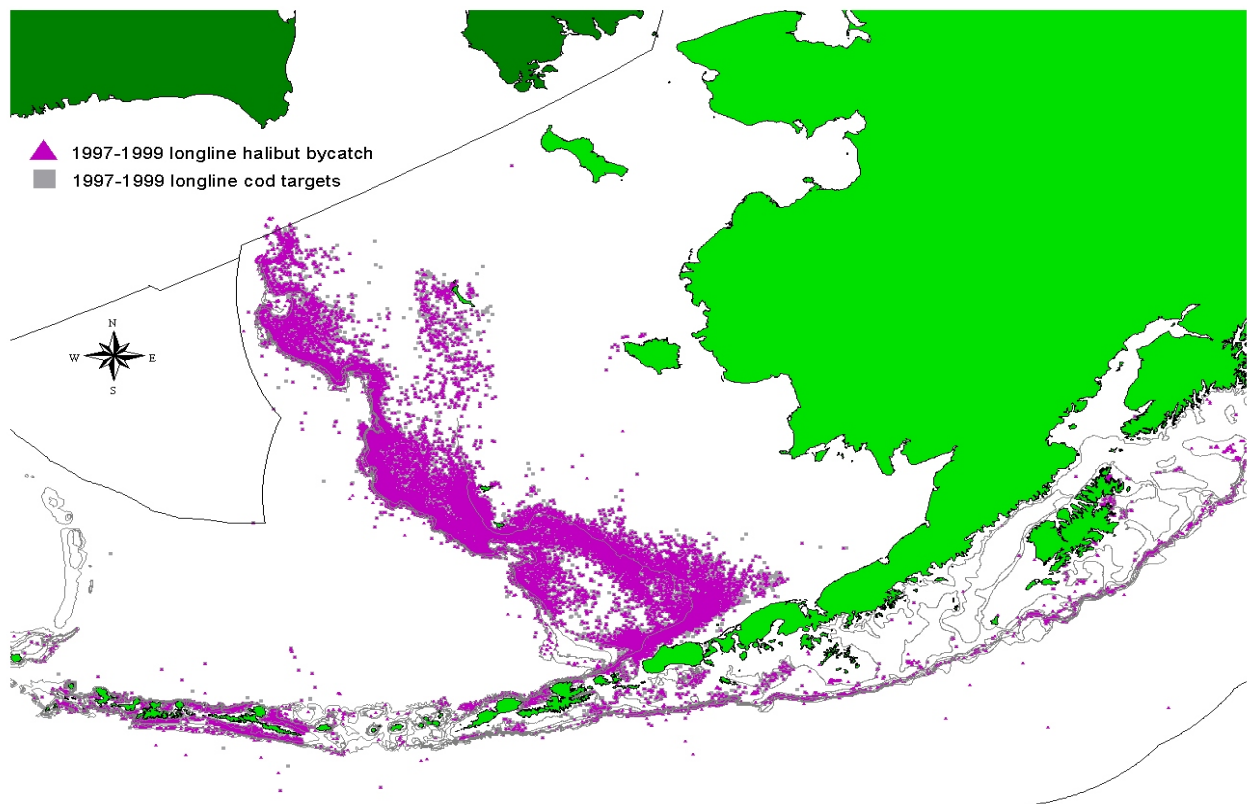
Source: <http://www.afsc.noaa.gov/refm/stocks/Presentations/BSAIPlanTeamDec2002.ppt>

Figure 3.2-25. Weathervane Scallops Alaska Landings



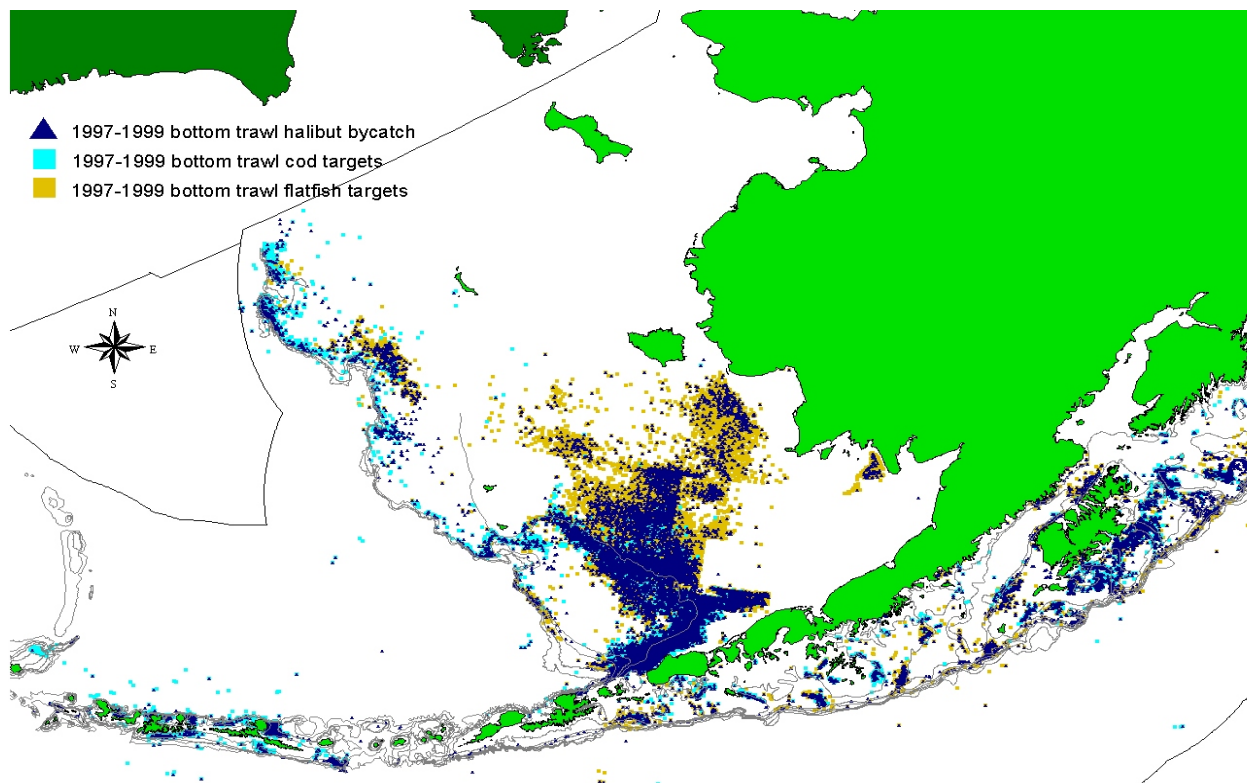
Source: D. Witherell, NPFMC Staff, Anchorage, Alaska

Figure 3.2-26. Observed Locations of Recent Halibut Bycatch on Longlines, with Cod Longliner Target Fishery



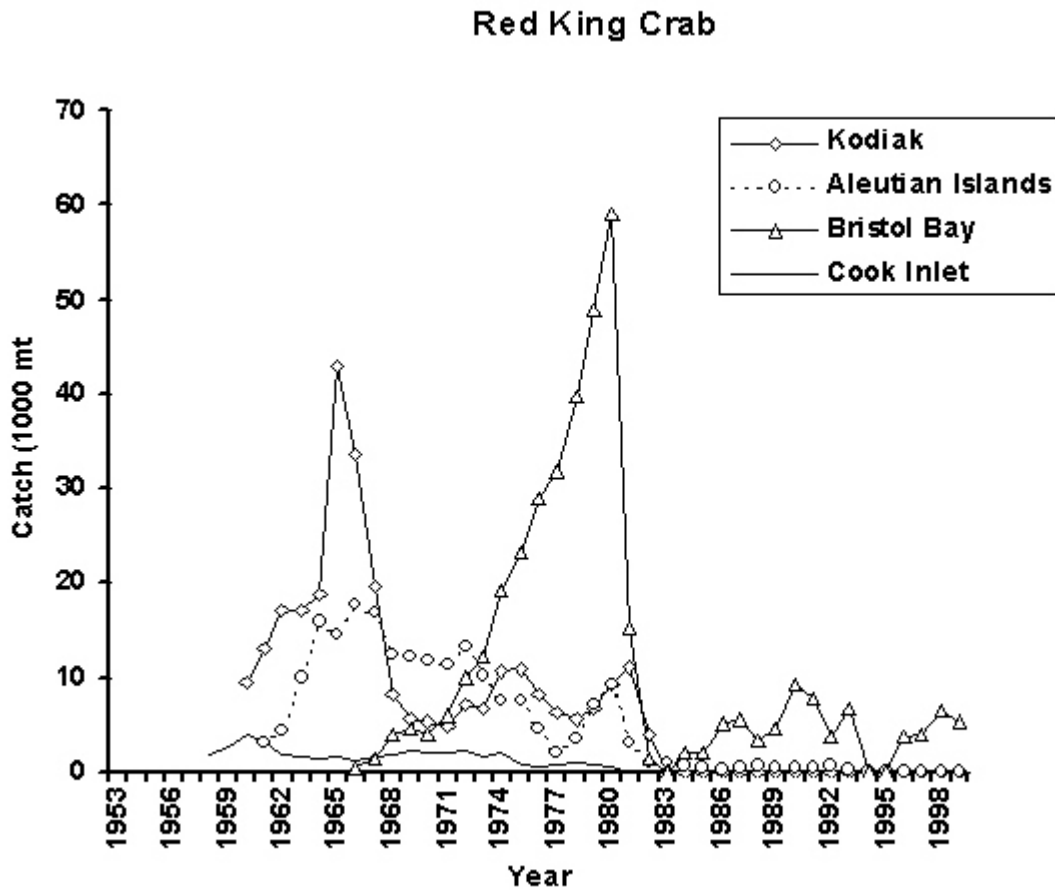
Source: NMFS 2001b

Figure 3.2-27. Observed Locations of Recent Halibut Bycatch in Bottom Trawls, with Target Fishery Distributions



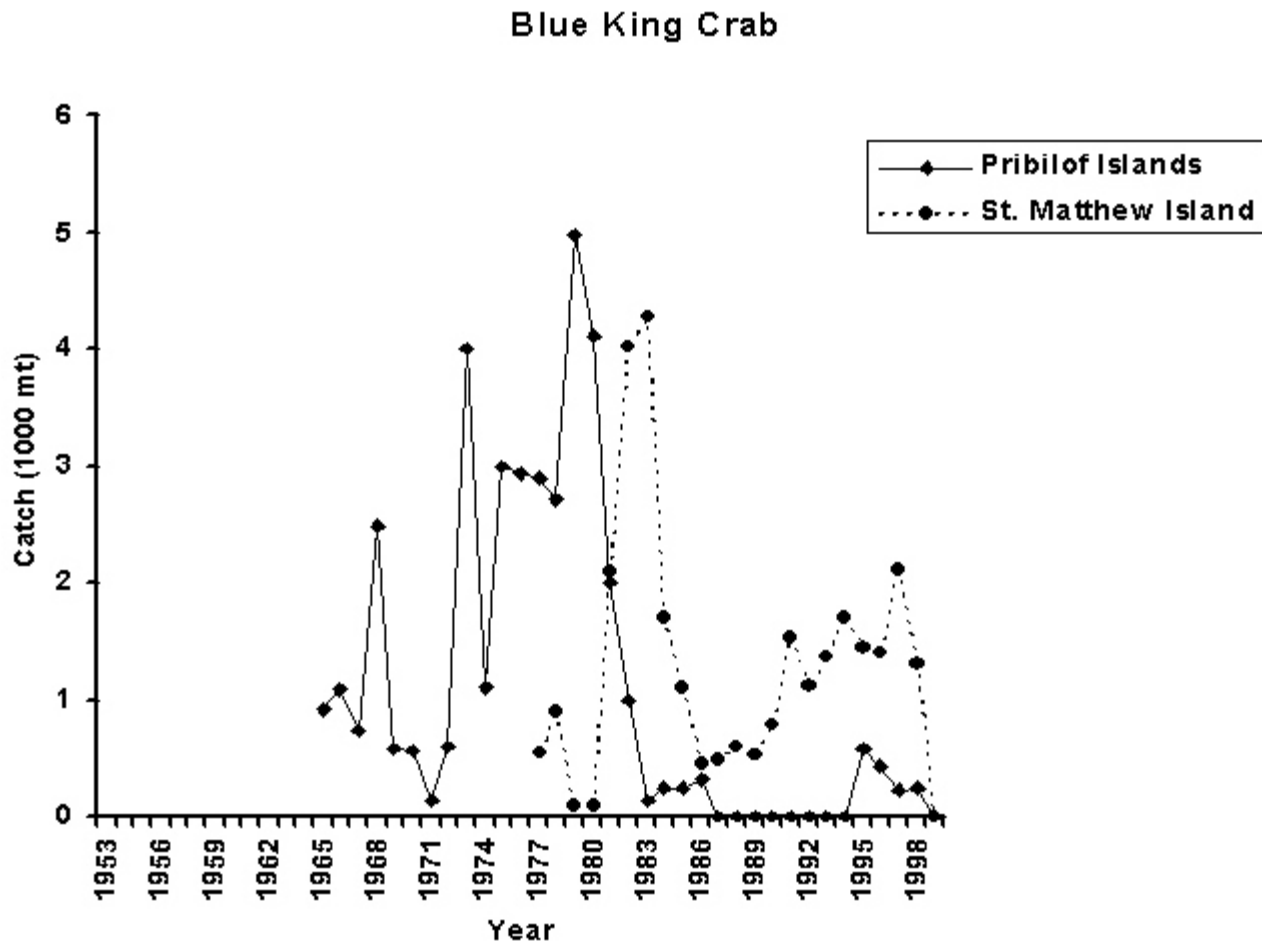
Source: NMFS 2001b

Figure 3.2-28. Historical Red King Crab Catch (in 1,000 mt) in Cook Inlet, Kodiak, Aleutian Islands, and Bristol Bay. Cook Inlet, Kodiak, and Aleutian Islands catches are given per season (for example, 1960 refers to the 1960/61 season).



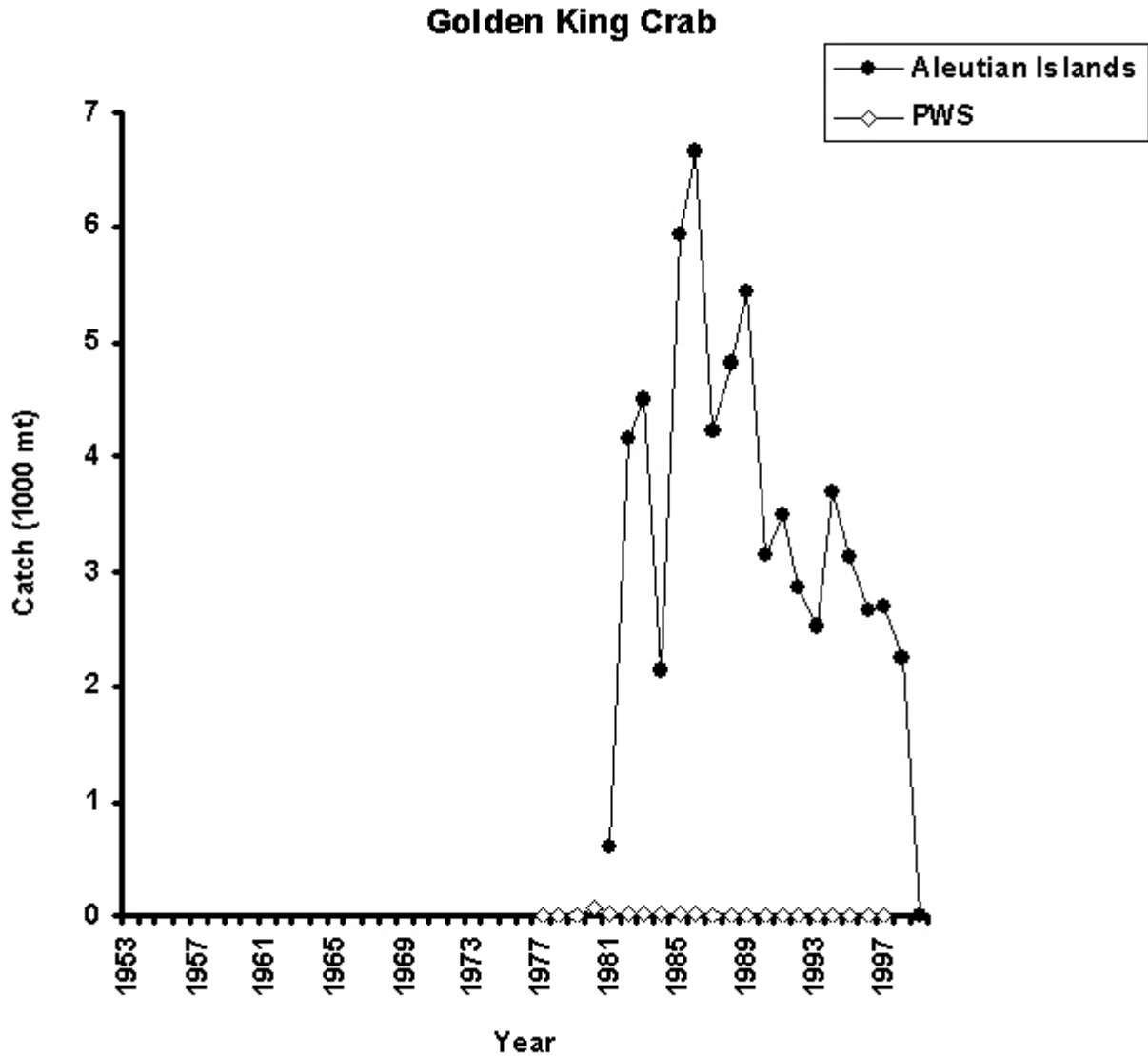
Source: ADF&G 2000b

Figure 3.2-29. Historical Blue King Crab Catch (in 1,000 mt) in the Pribilof Islands and St. Matthew Island. The Pribilof Islands catches are given per season (for example, 1972 refers to the 1972/73 season).



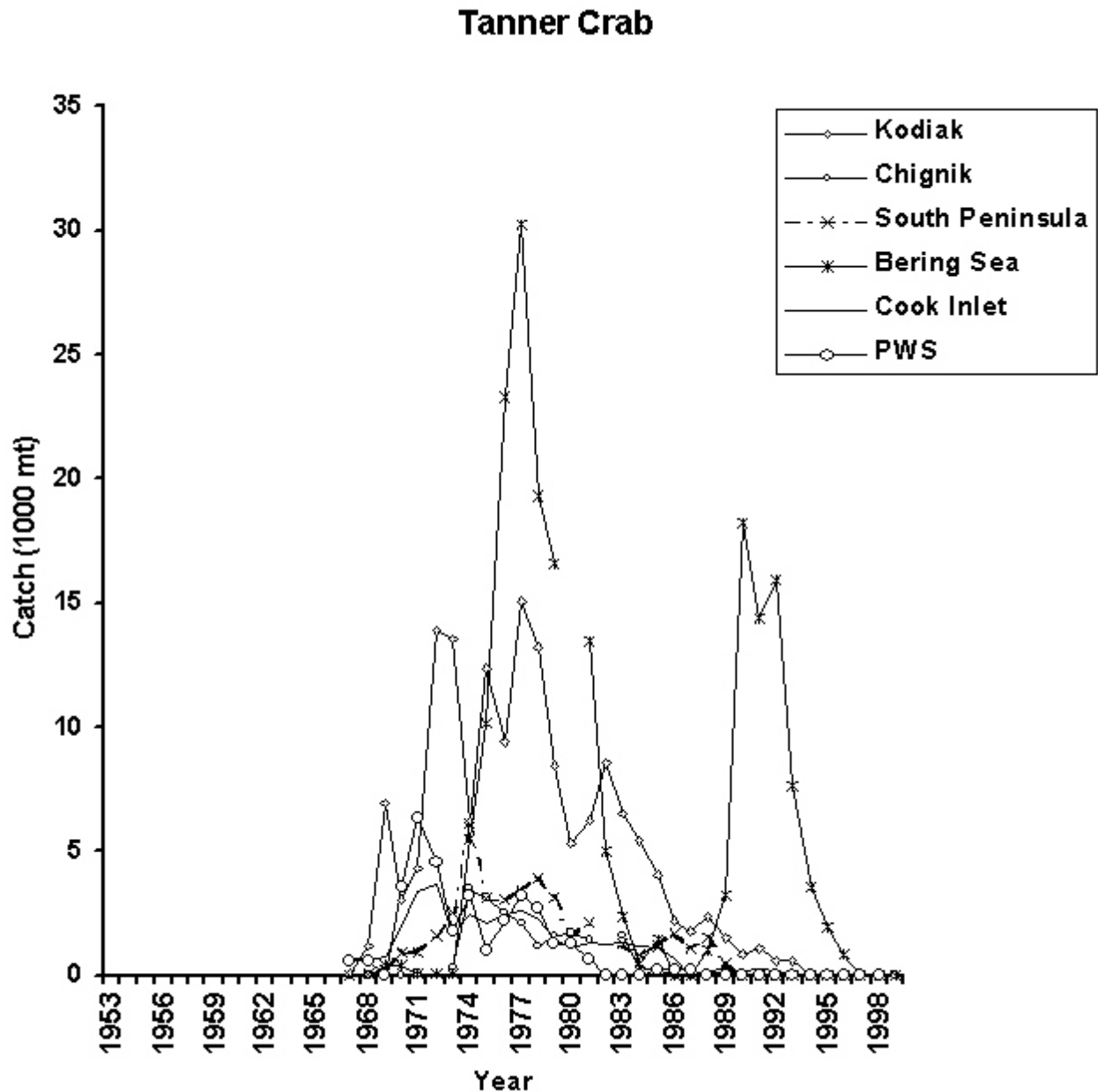
Source: ADF&G 2000b

Figure 3.2-30. Historical Seasonal Golden King Crab Catch (in 1,000 mt) in PWS and the Aleutian Islands. Catches are given per season (for example, 1981 refers to the 1981/82 season).



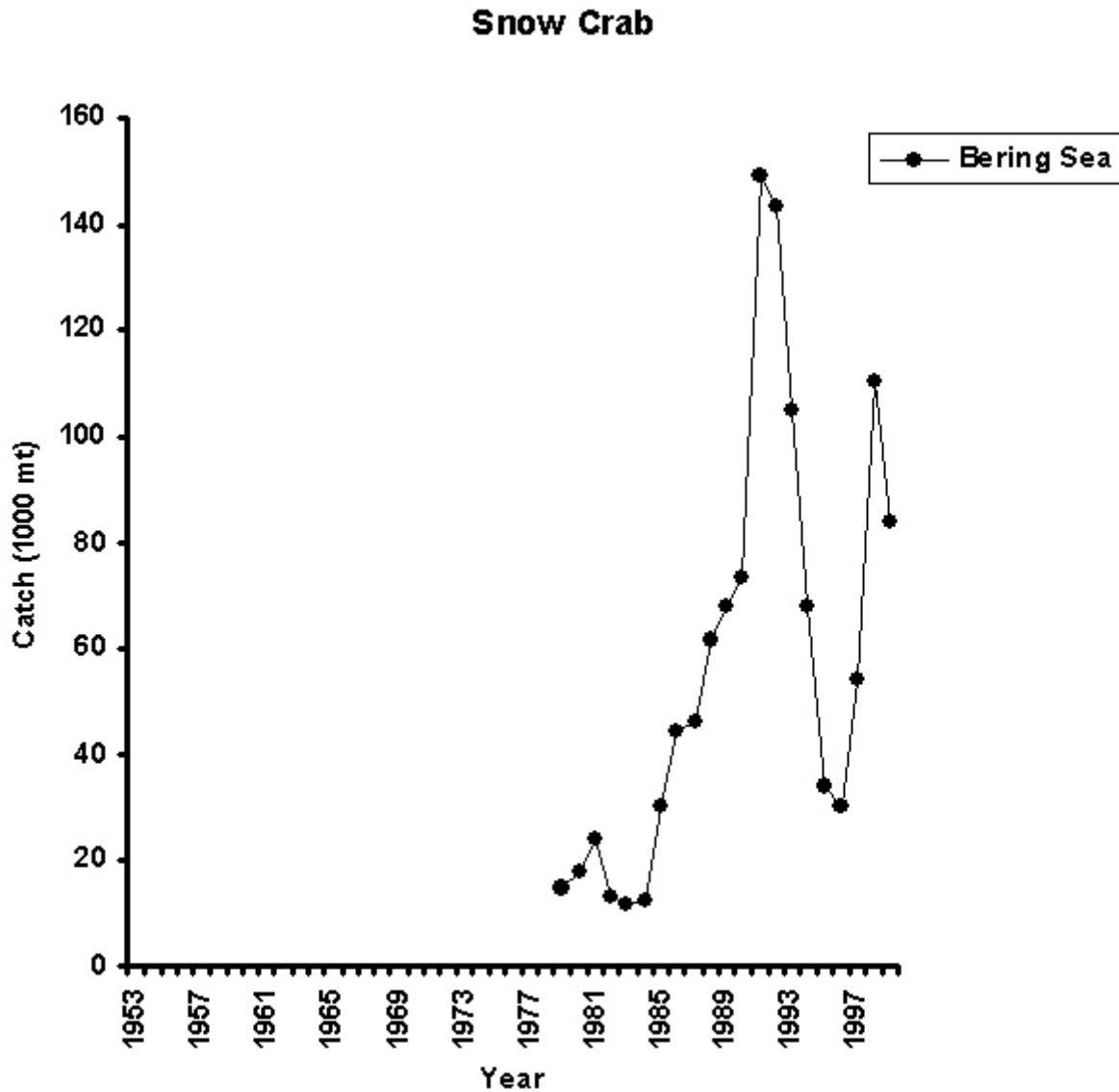
Source: ADF&G 2000b

Figure 3.2-31. Historical Tanner Crab Catch (in 1,000 mt) in the PWS, Cook Inlet, Kodiak, Chignik, Southern Peninsula, and Bering Sea Areas. Some catches are given per season (spanning two calendar years), whereas others are per calendar year.



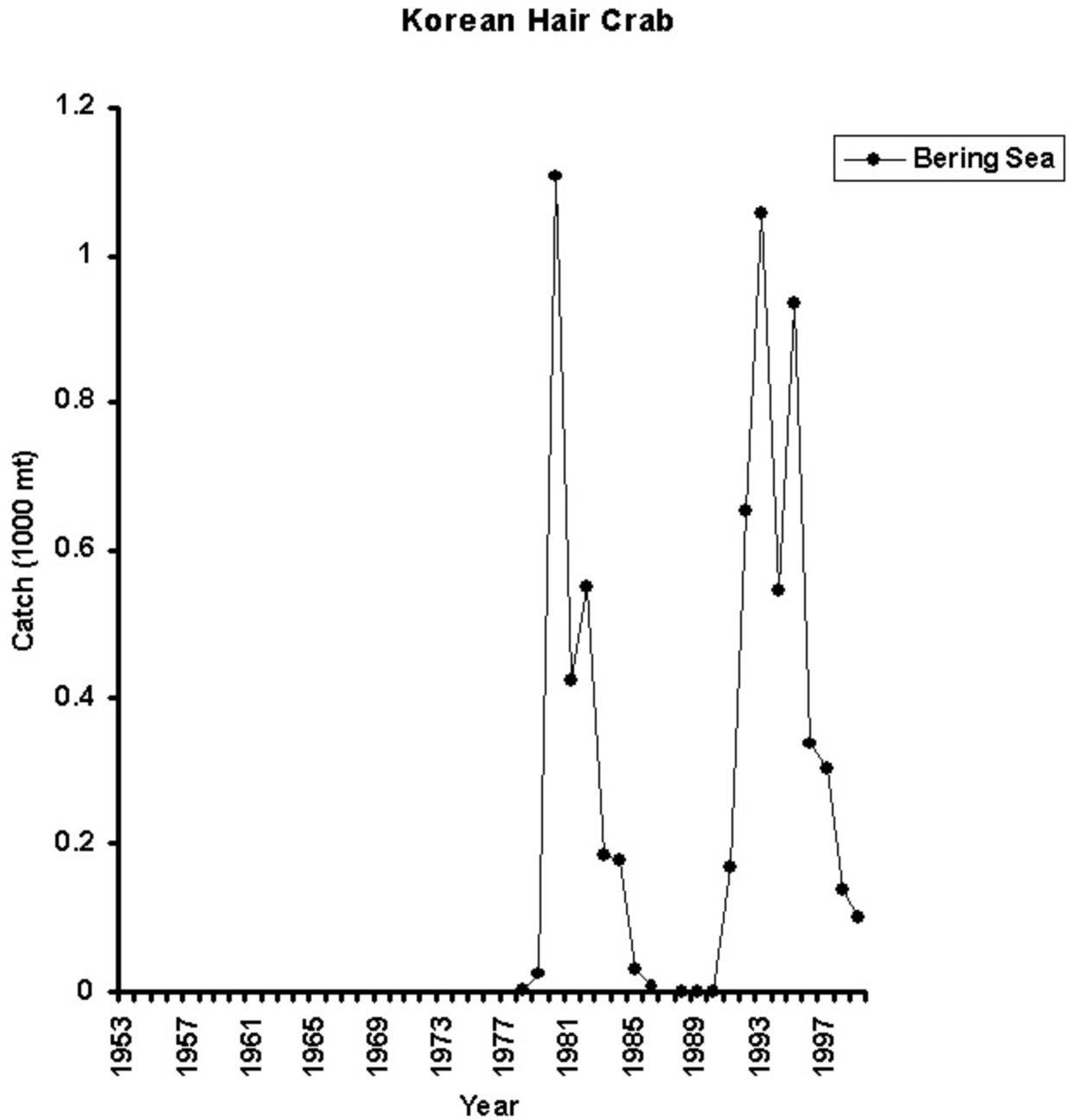
Source: ADF&G 2000b

Figure 3.2-32. Historical Snow Crab Catch (in 1,000 mt) in the Bering Sea. Some catches are given per season (spanning two calendar years), whereas others are per calendar year.



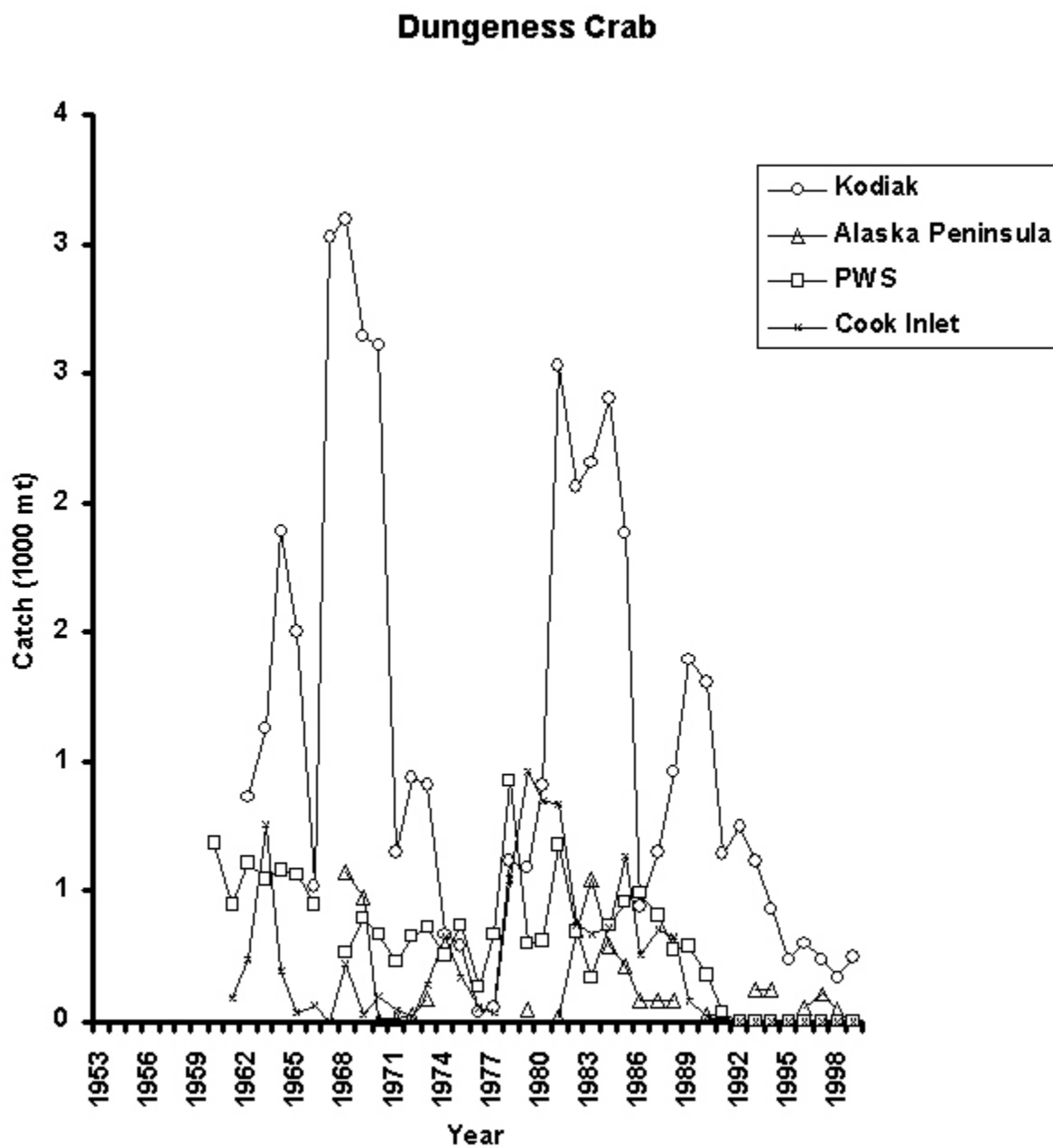
Source: ADF&G 2000b

Figure 3.2-33. Historical Korean Hair Crab Catch (in 1,000 mt) in the Bering Sea. Some catches are given per season (spanning two calendar years), whereas others are per calendar year.



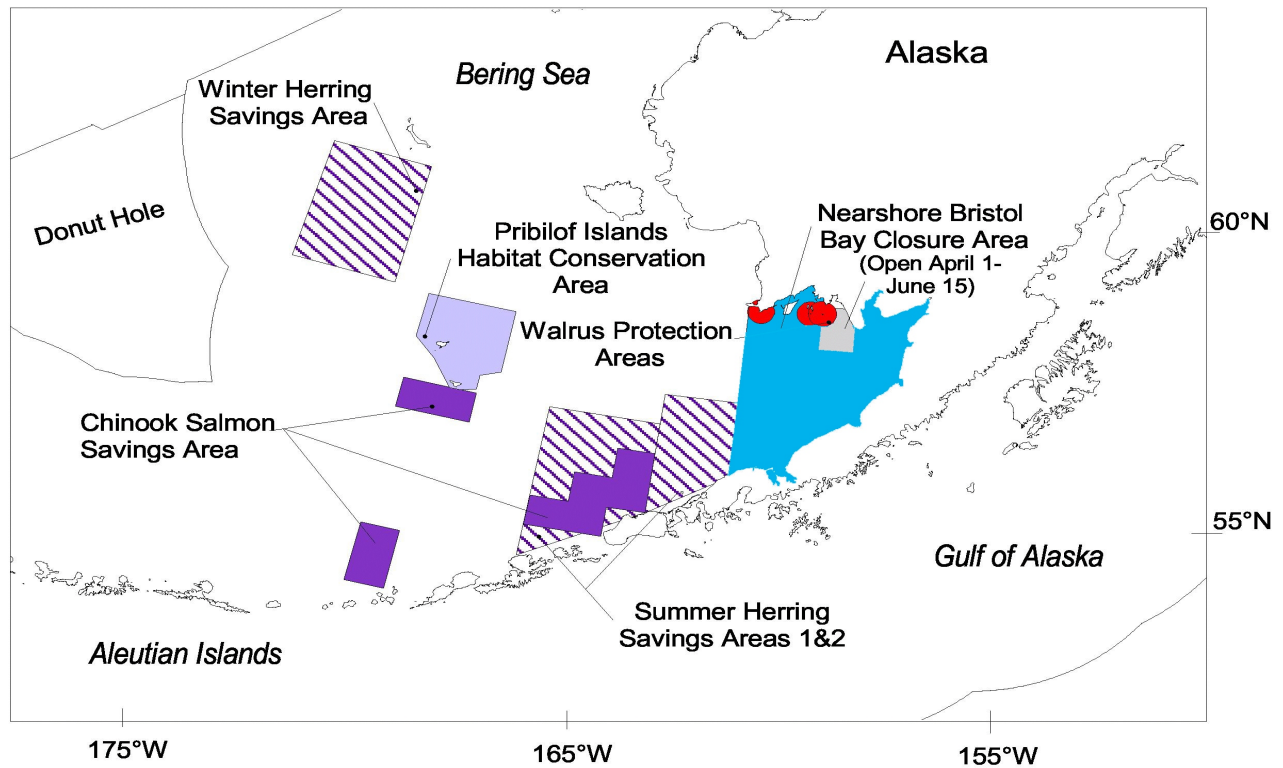
Source: ADF&G 2000b

Figure 3.2-34. Historical Annual Dungeness Crab Catch (in 1,000 mt) in the PWS, Cook Inlet, Kodiak, and Alaska Peninsula Districts.



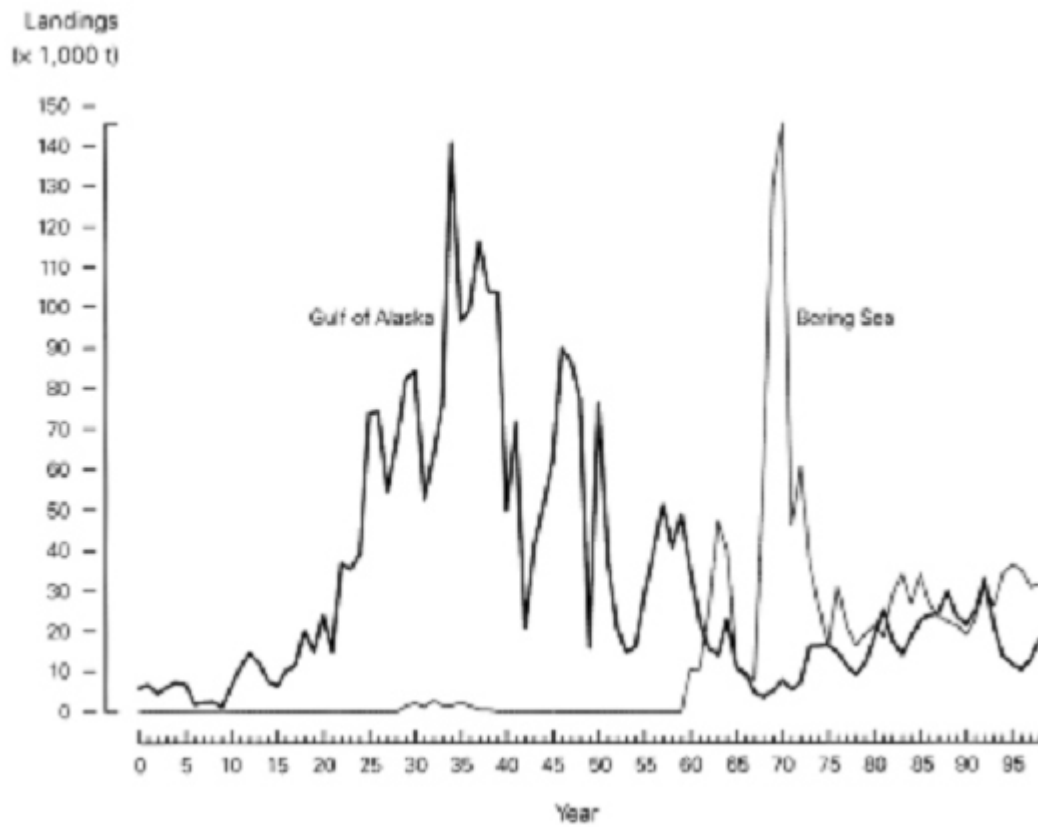
Source: ADF&G 2000b

Figure 3.2-35. Management Areas Involving Prohibited Species and Walrus in the Bering Sea



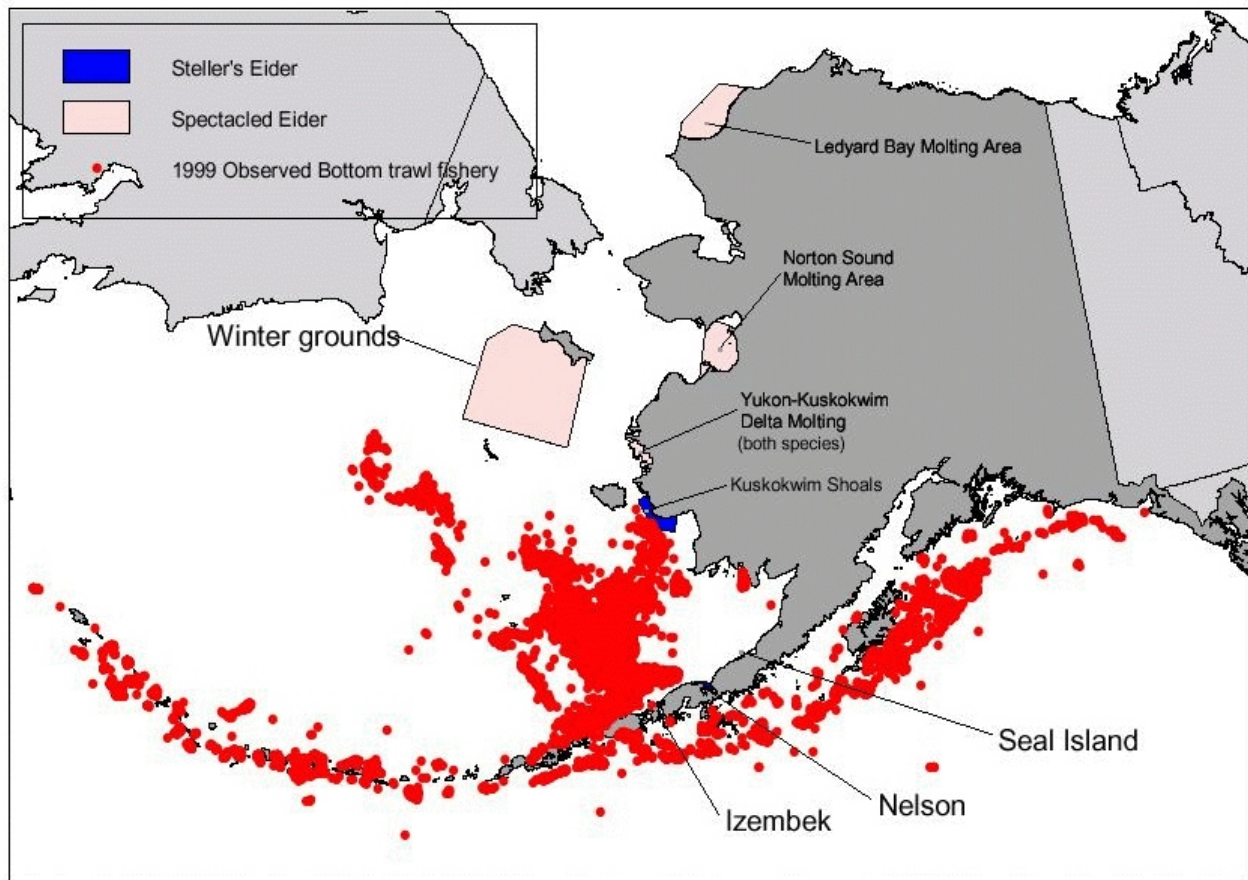
Source: NMFS 2001a

Figure 3.2-36. Historical Trend of Pacific Herring Catch in the Bering Sea and the Gulf of Alaska, 1990-1998.



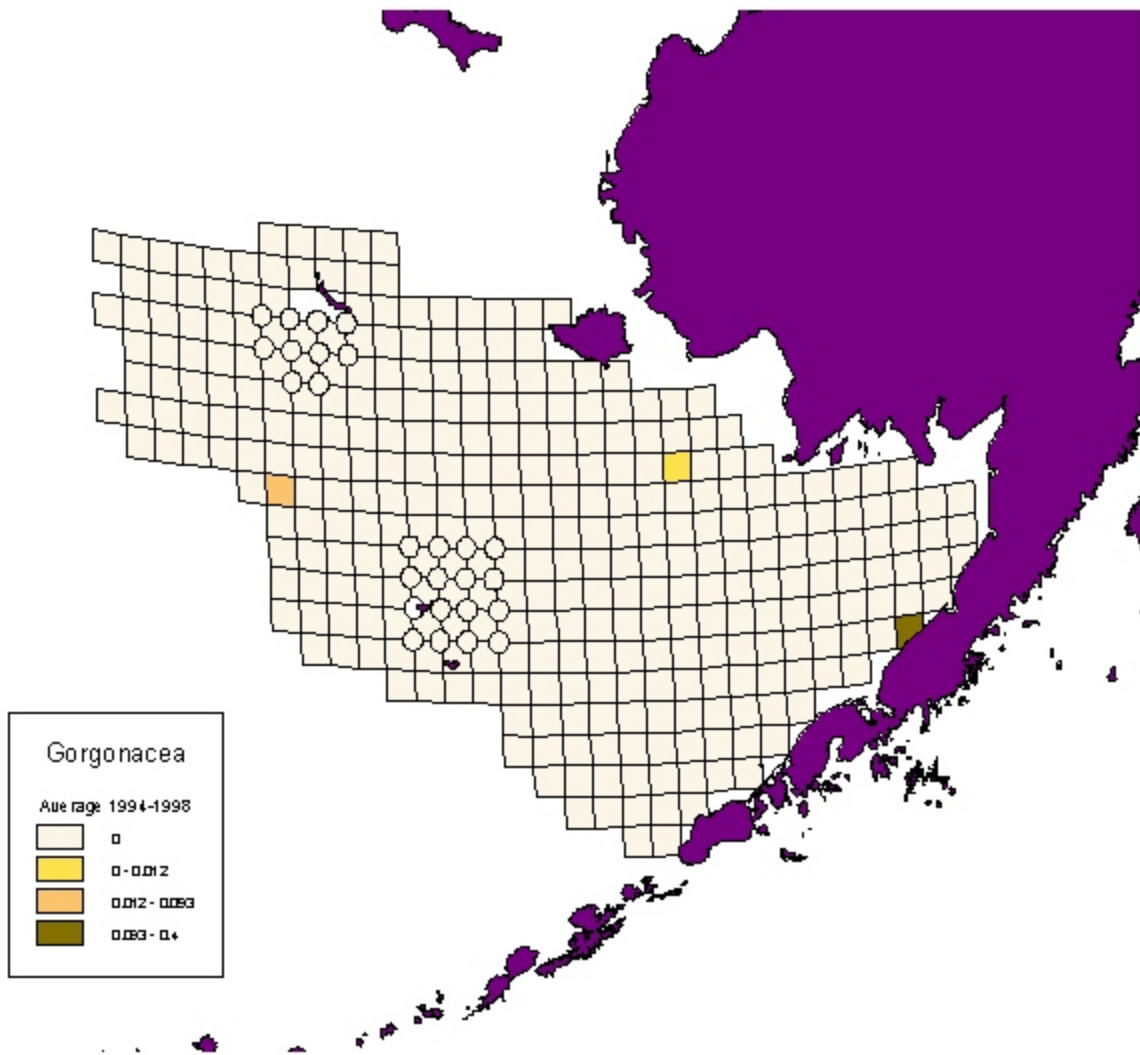
Source: ADF&G Fish Ticket Landing Receipt Database, 1999

Figure 3.2-37. Final Critical Habitat for Spectacled and Steller's Eider



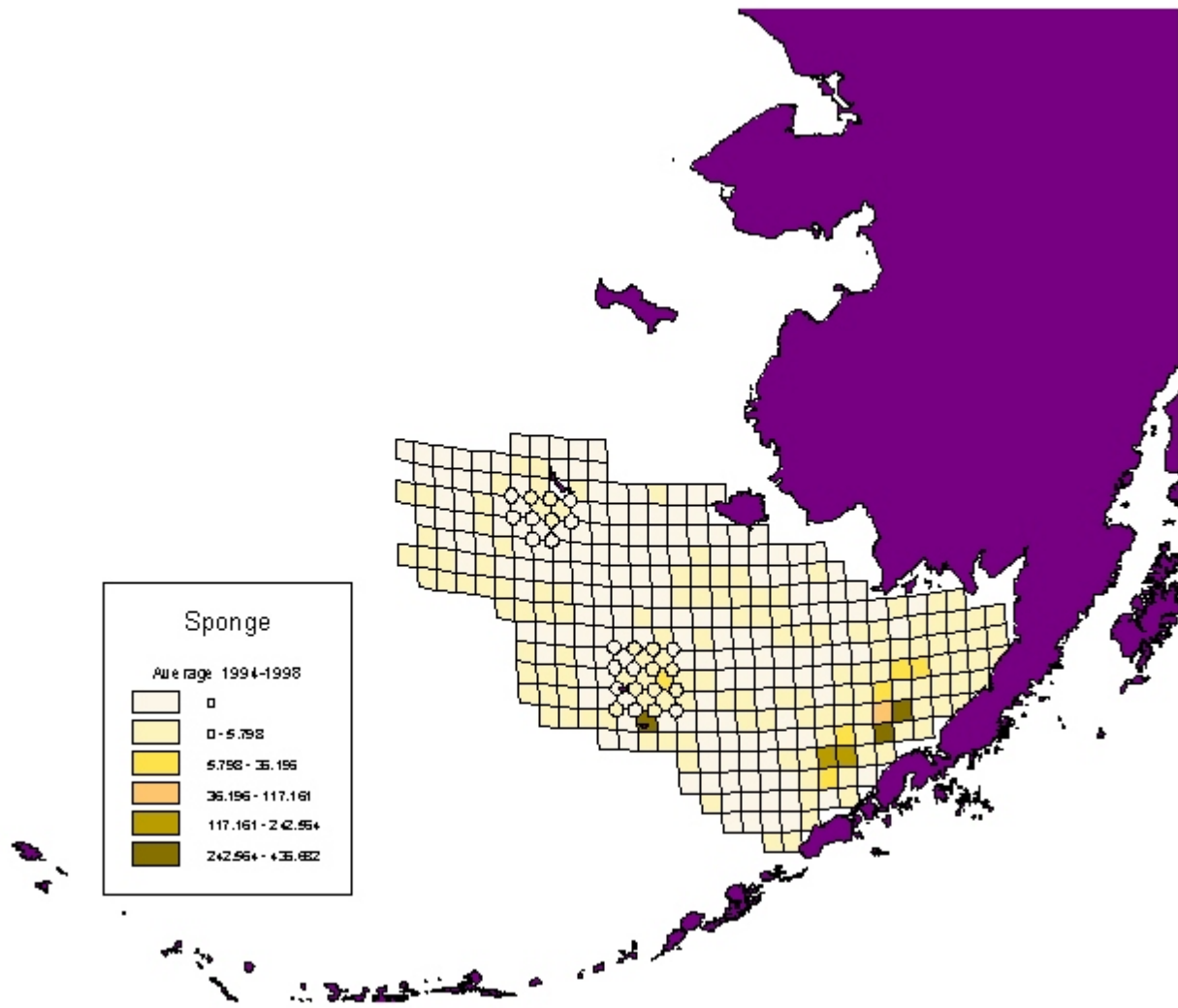
Source: NMFS 2001b

Figure 3.2-38. Distribution of Horny Corals (kilograms per hectare [kg/ha])



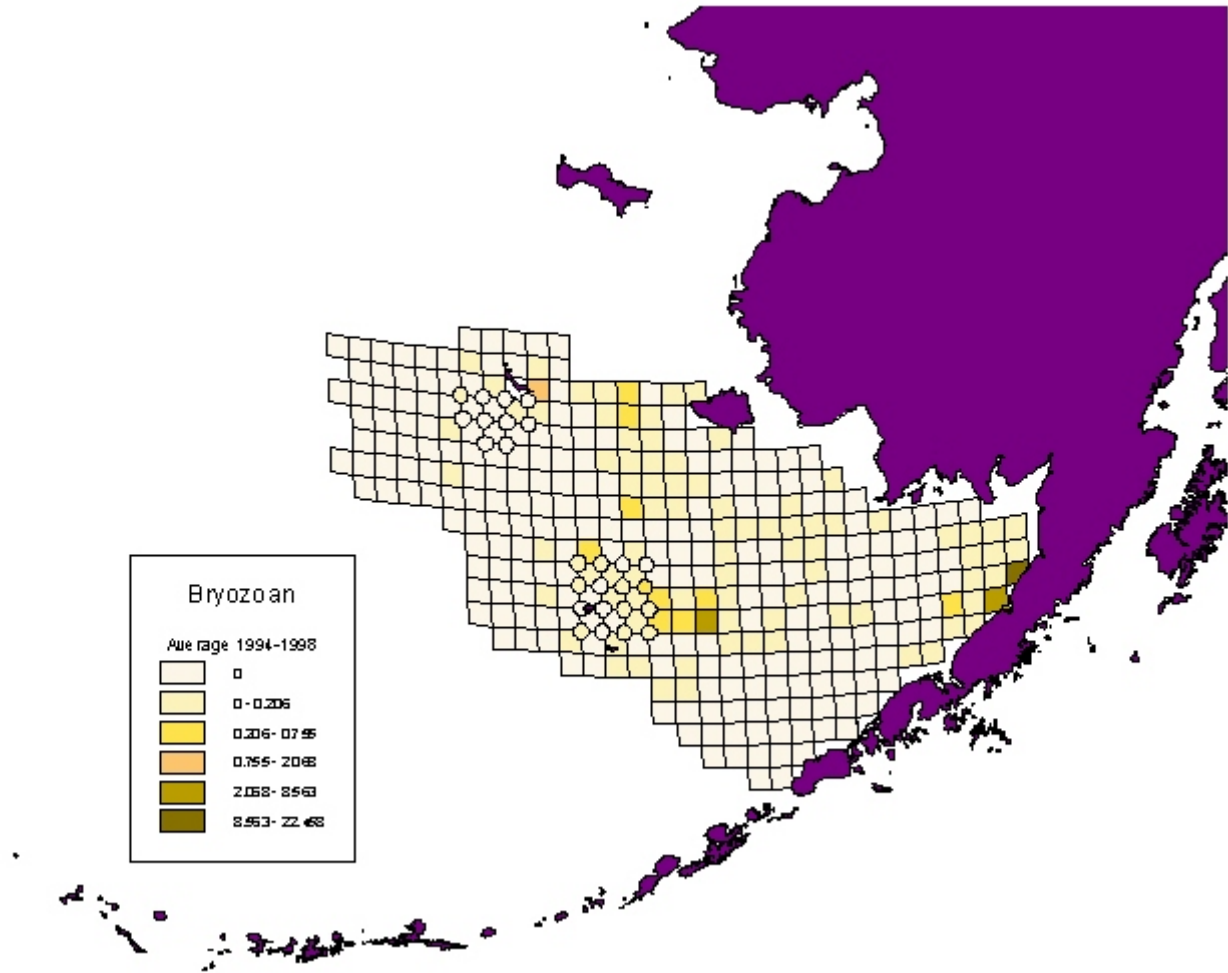
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-39. Distribution of Sponges (kg/ha)



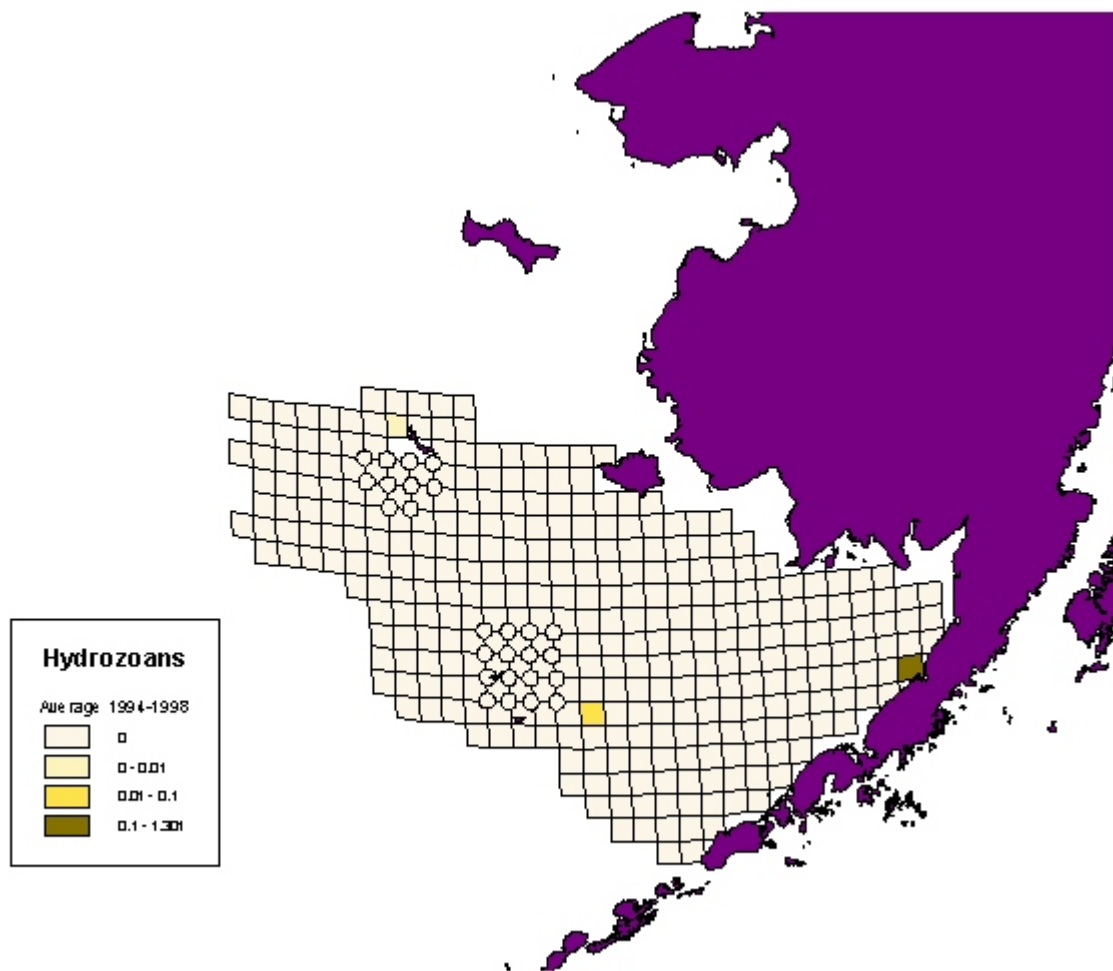
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-40. Distribution of Bryozoans (kg/ha)



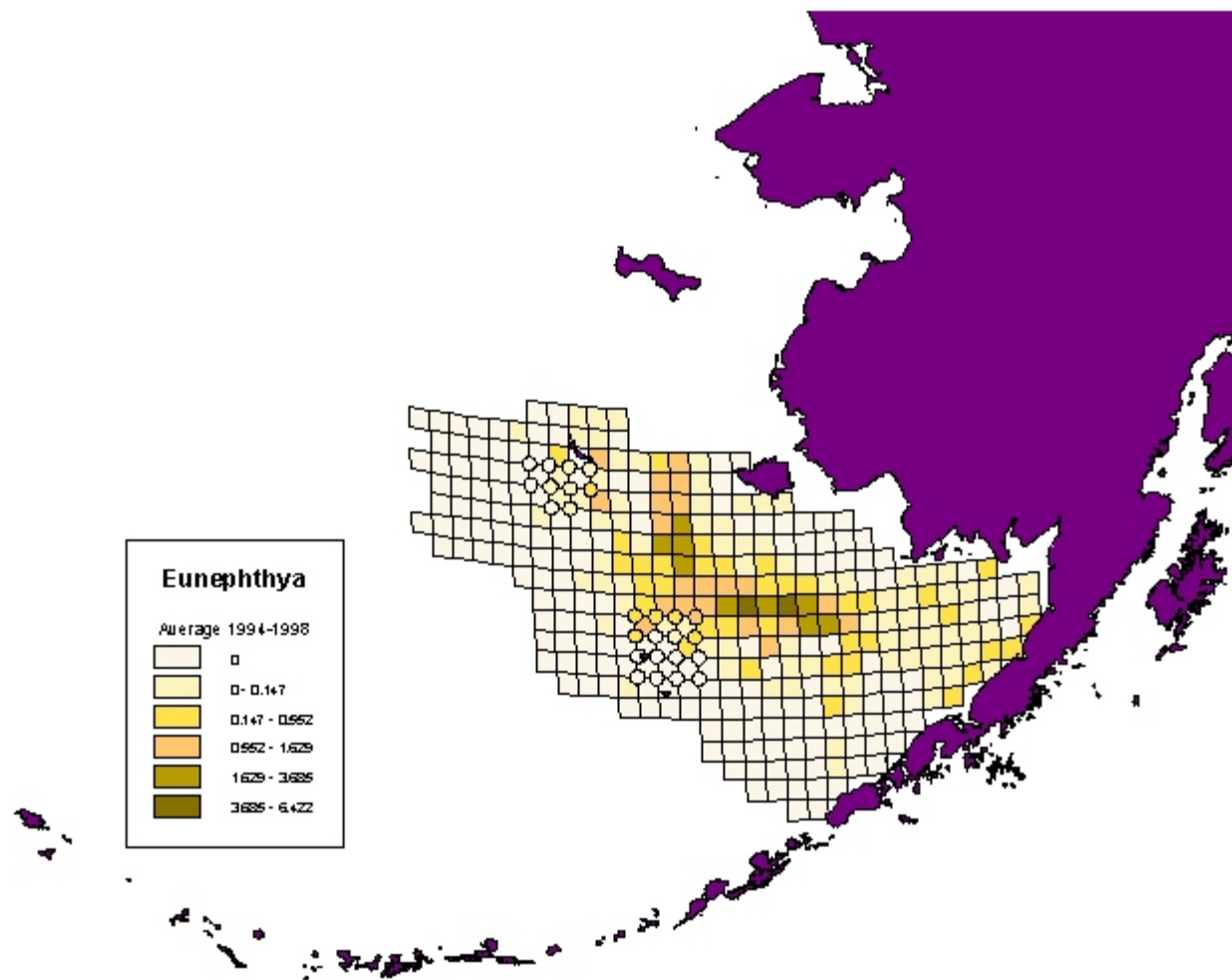
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-41. Distribution of Hydroids (kg/ha)



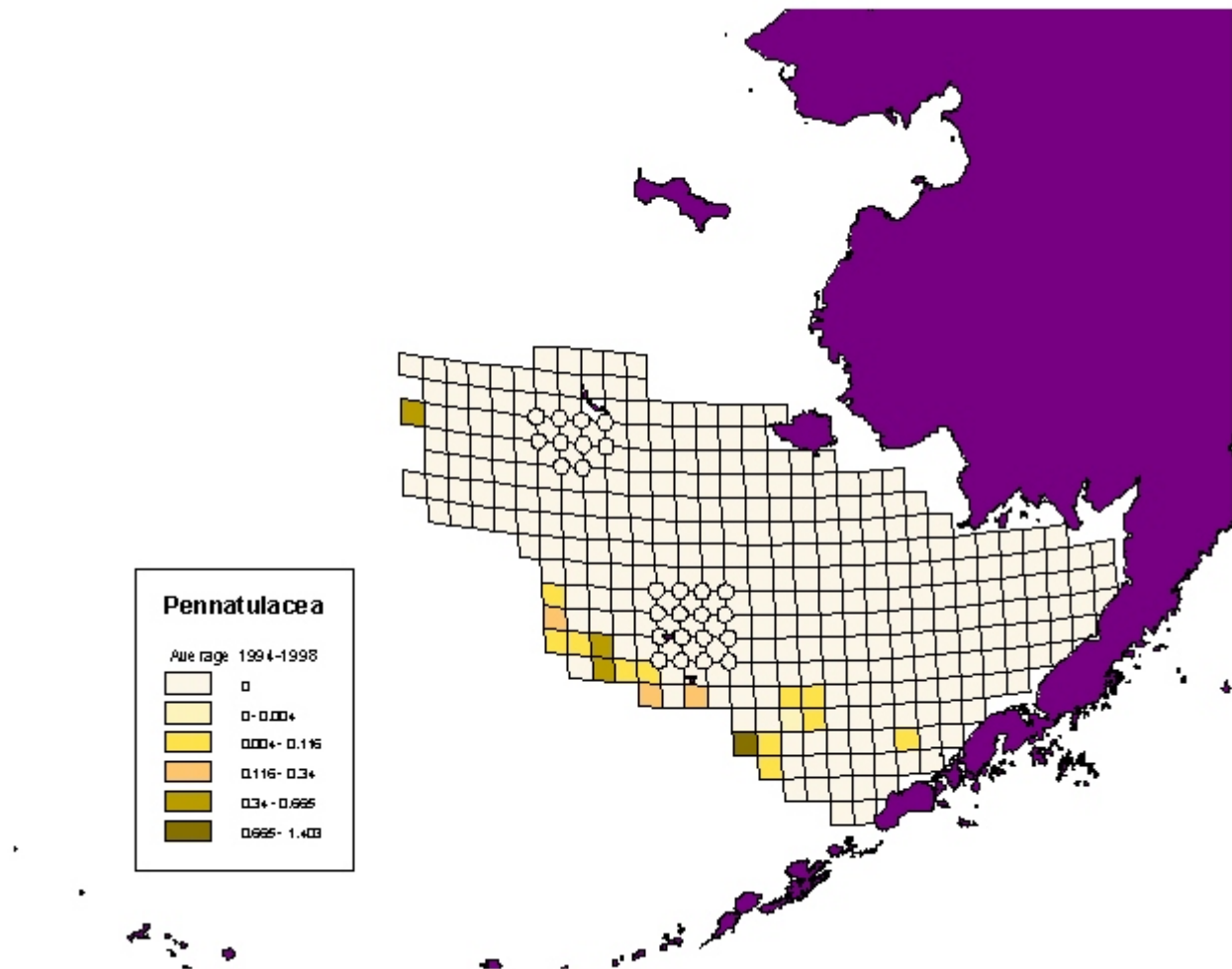
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-42. Distribution of Sea Raspberries (kg/ha)



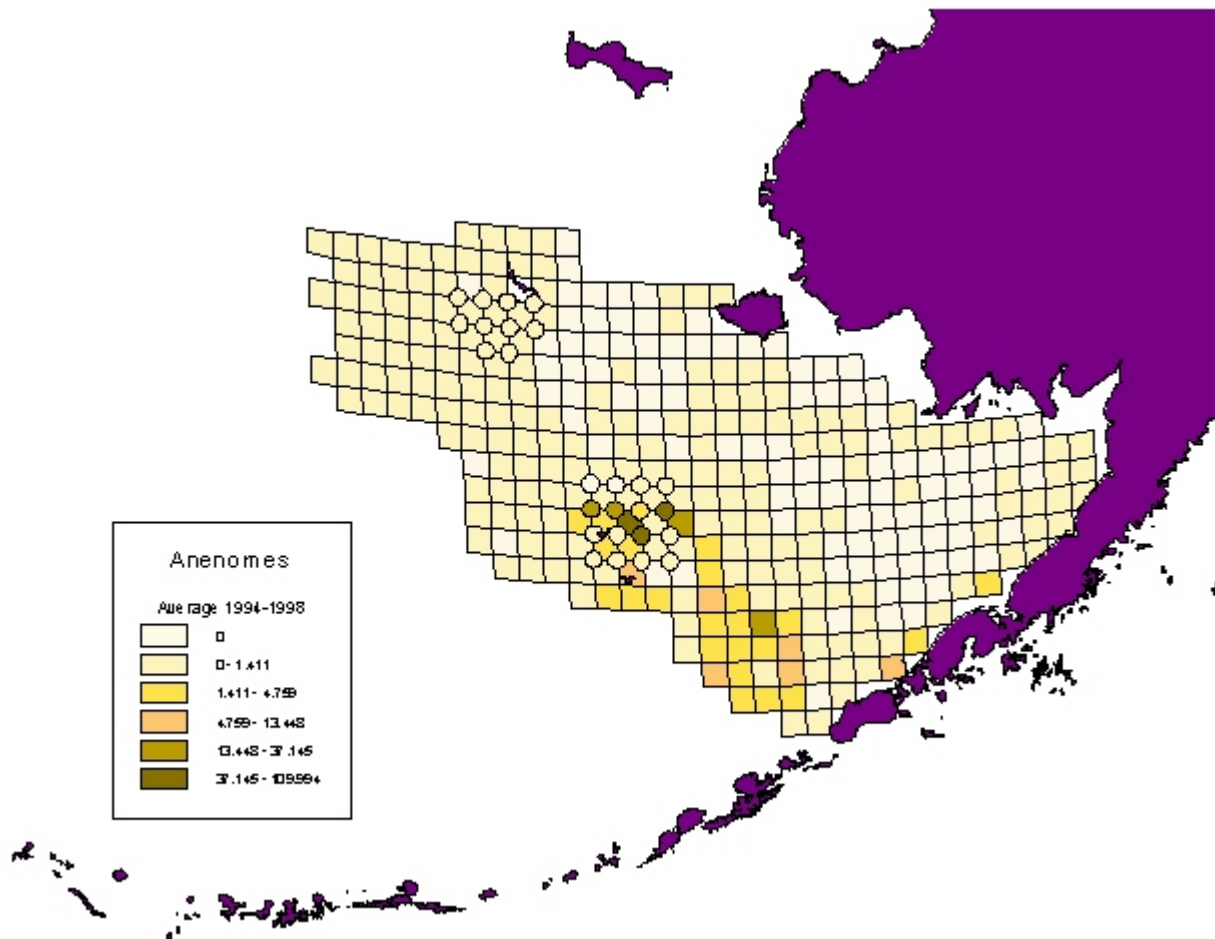
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-43. Distribution of Sea Pen (kg/ha)



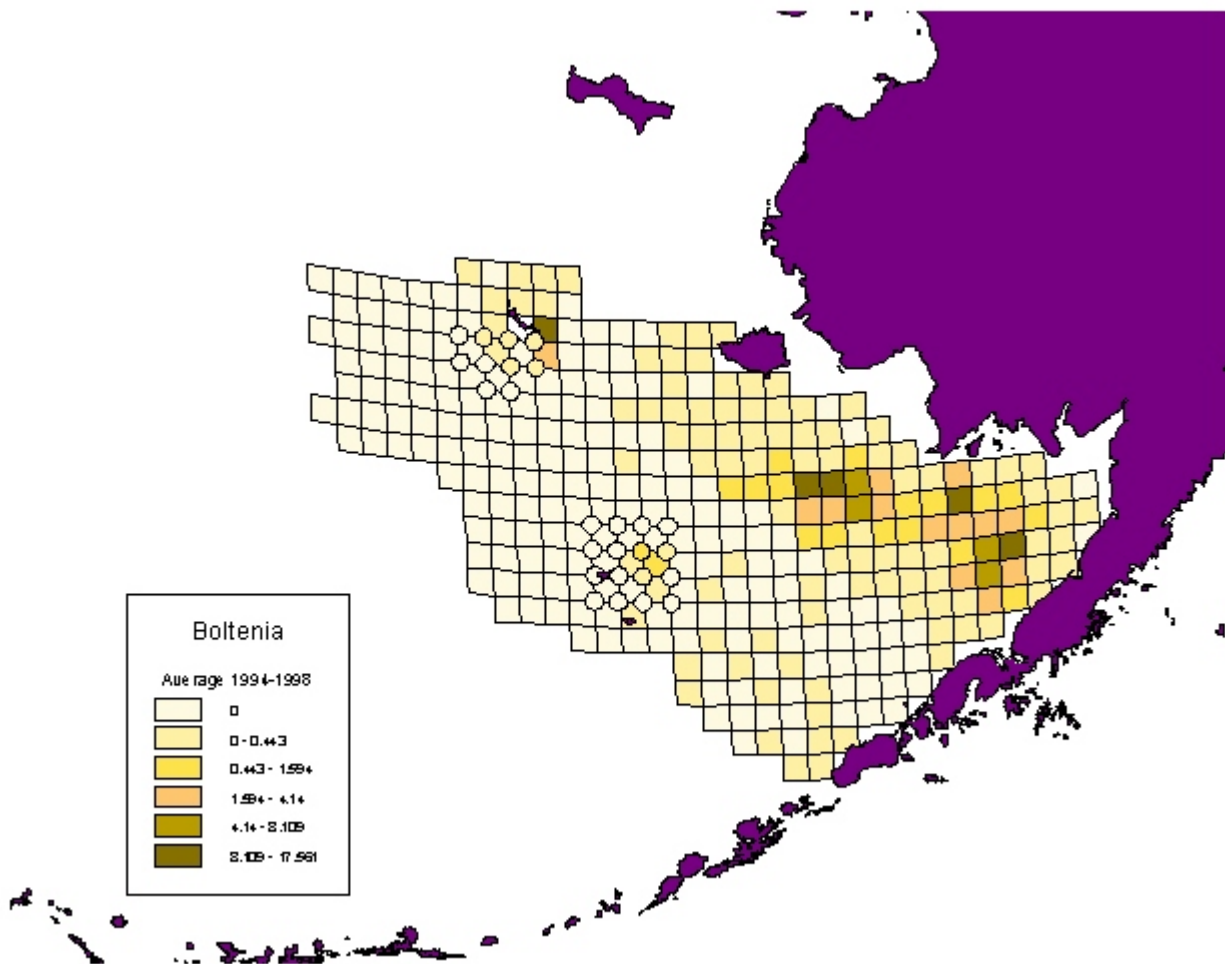
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-44. Distribution of Anemones (kg/ha)



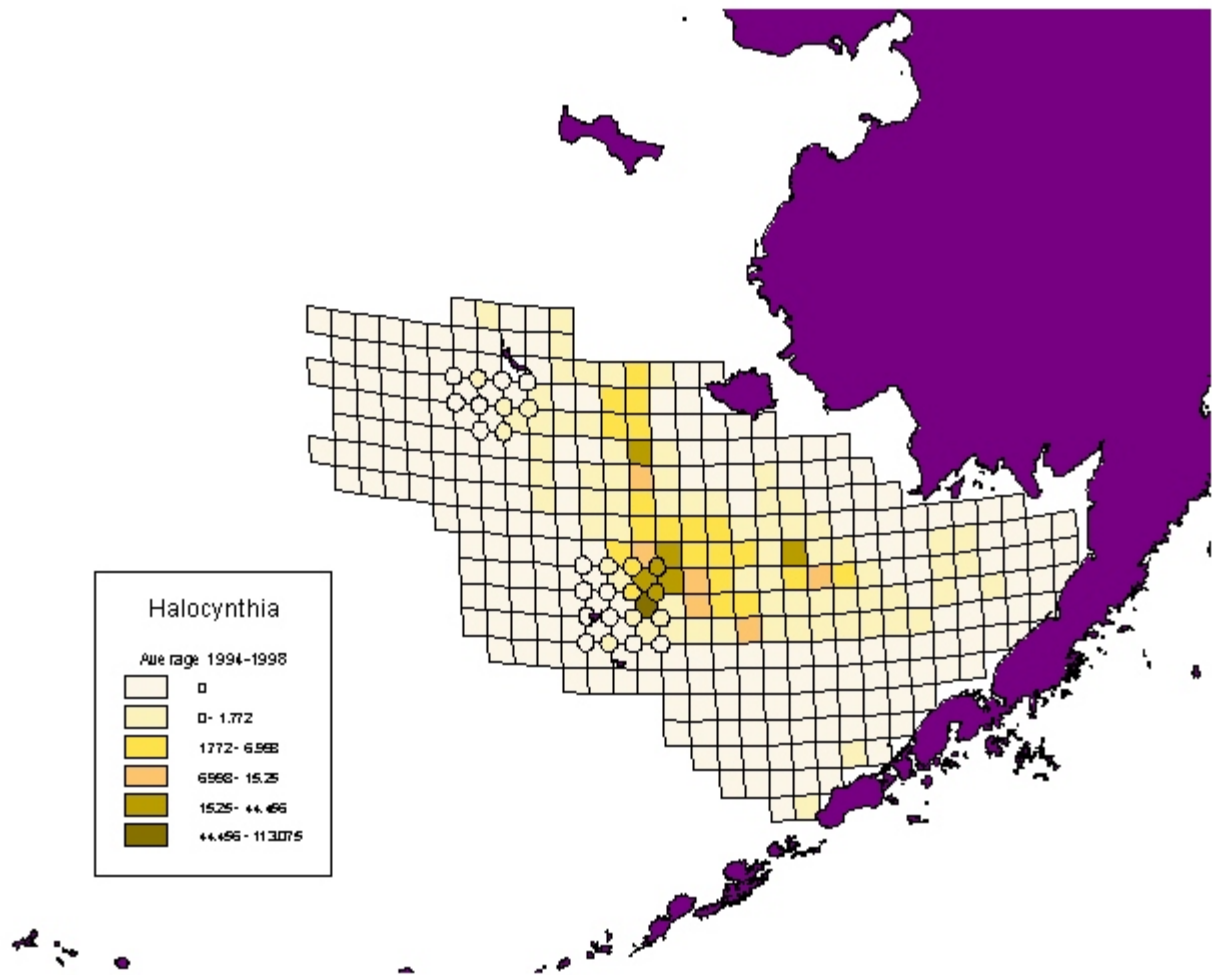
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-45. Distribution of Sea Onion (kg/ha)



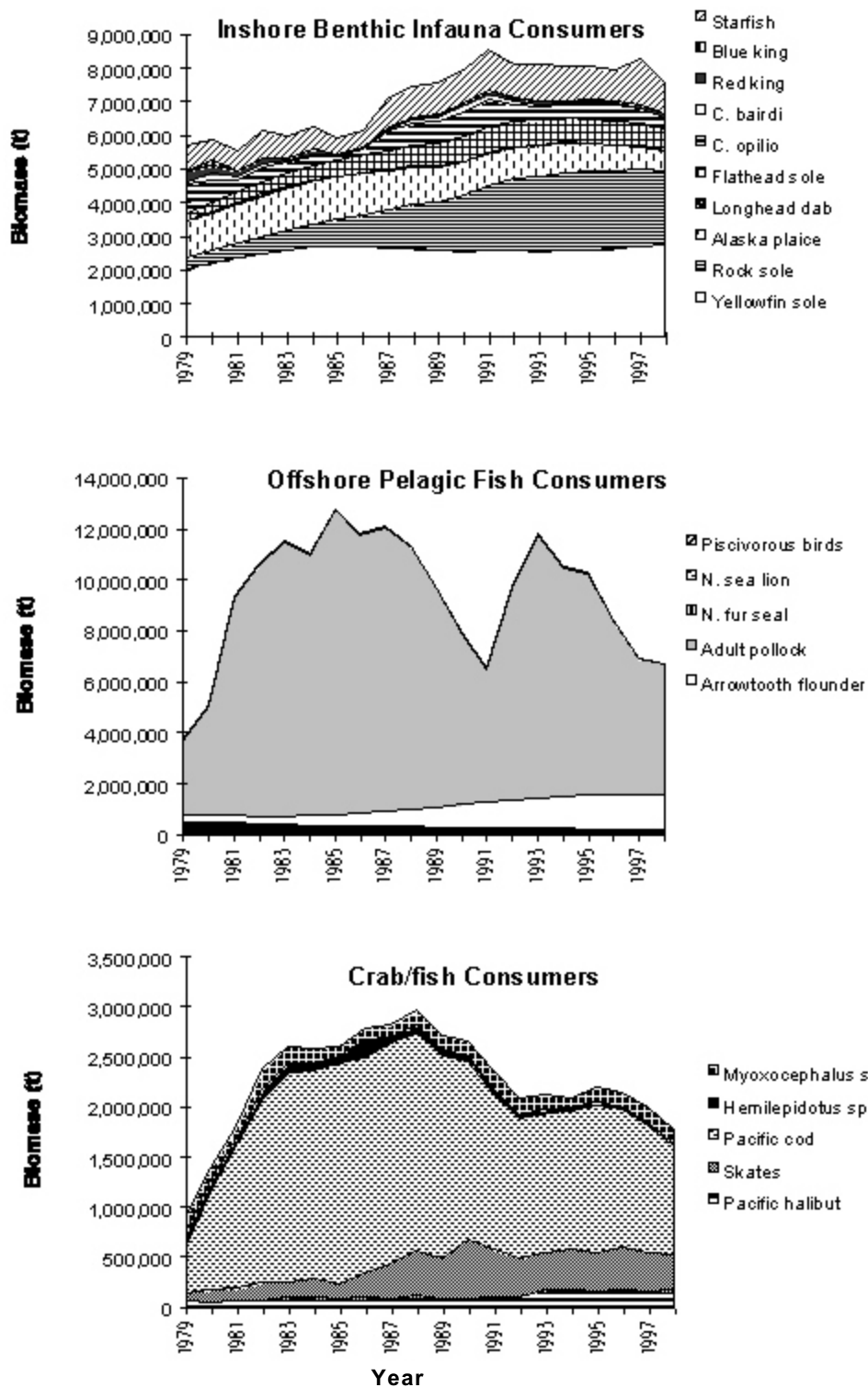
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.2-46. Distribution of Sea Peach (kg/ha)



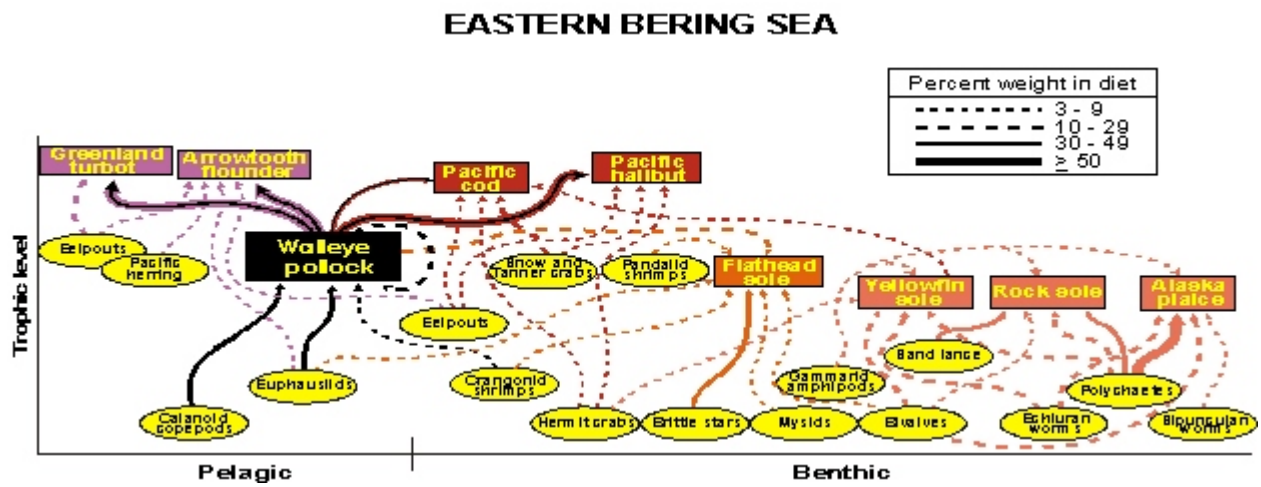
Source: <http://www.afsc.noaa.gov/groundfish/HAPC/EBScontents.htm>

Figure 3.3-1. Biomass Trends in Bering Sea Trophic Guilds, 1979 to 1998



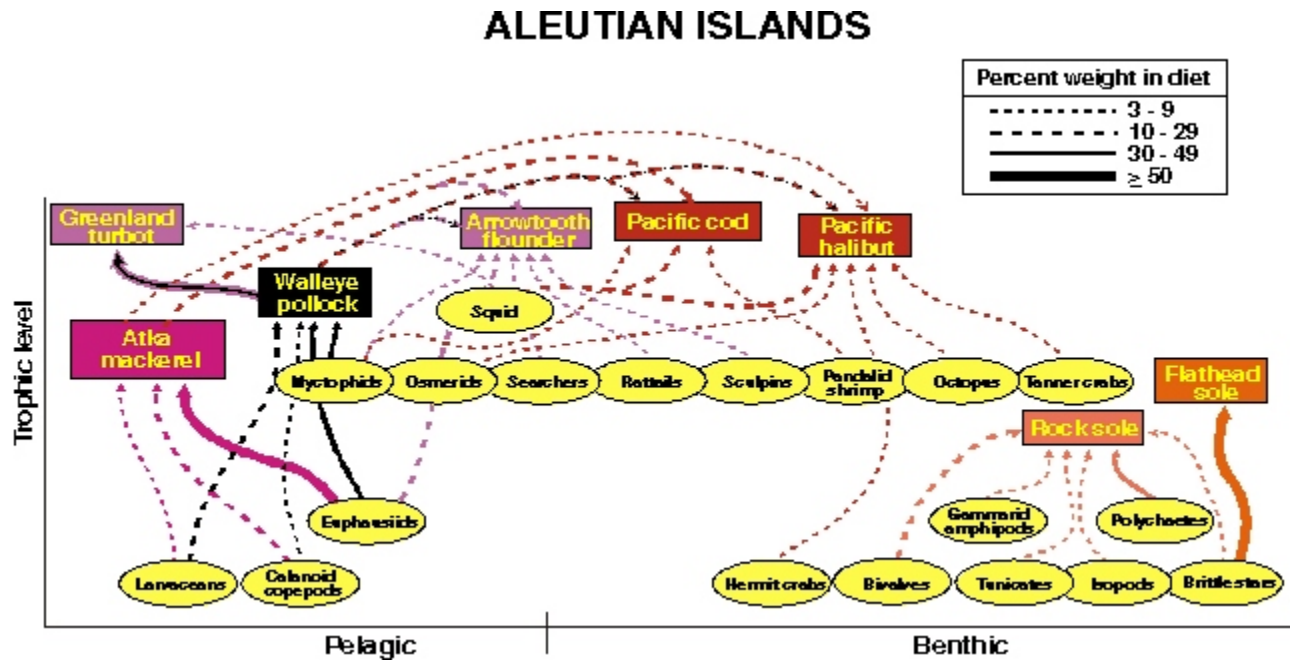
Source: NMFS 2001b

Figure 3.3-2. Trophic Interactions of Key Eastern Bering Sea Groundfish



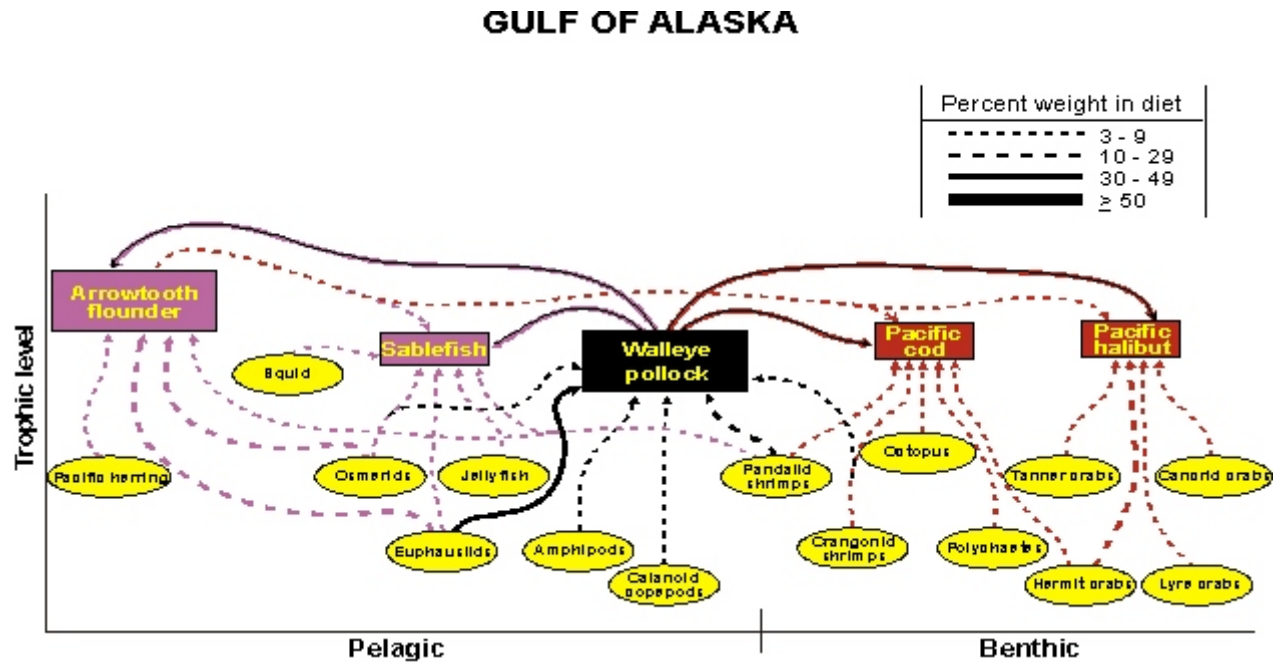
Source: NMFS 2001a

Figure 3.3-3. Trophic Relationships of the Groundfishes in the Aleutian Islands



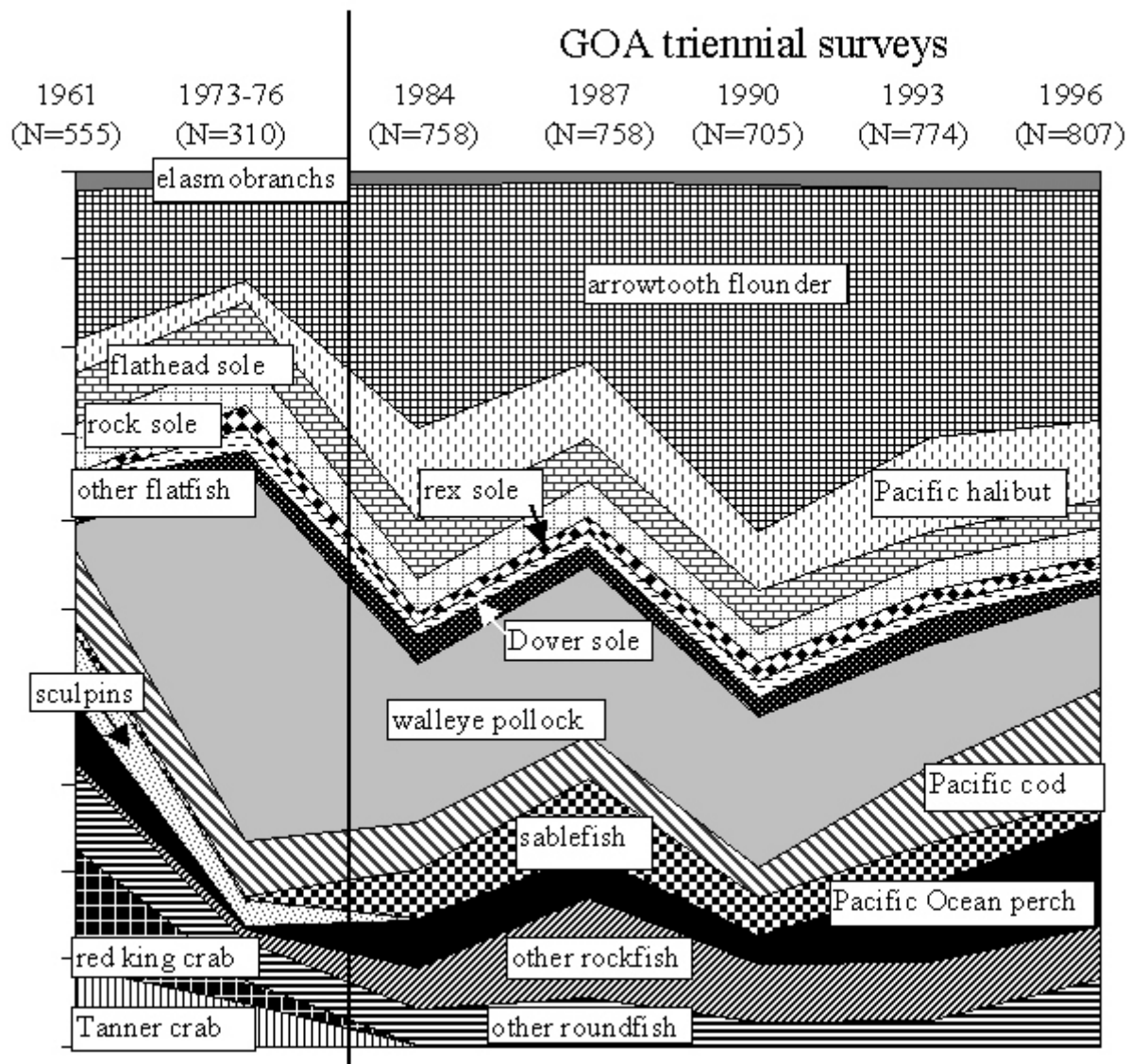
Source: NMFS 2001a

Figure 3.3-4. Trophic Relationships of the Groundfishes in the Gulf of Alaska



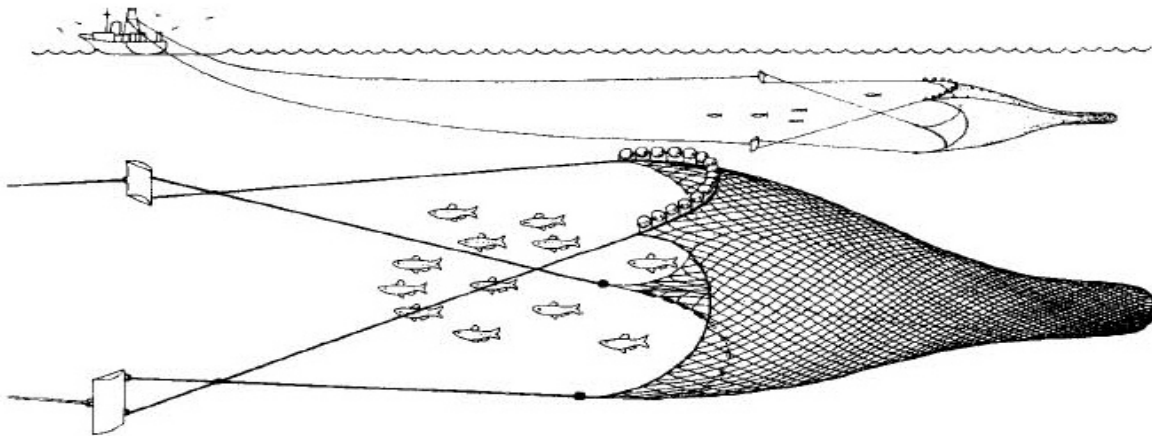
Source: NMFS 2001a

Figure 3.3-5. Trend in Index of Species Composition Based on Ordination of Species Abundance Data from Five Triennial Surveys on Gulf of Alaska Shelf and Slope with Approximate 95 Percent Confidence Interval



Source: NMFS 2001a

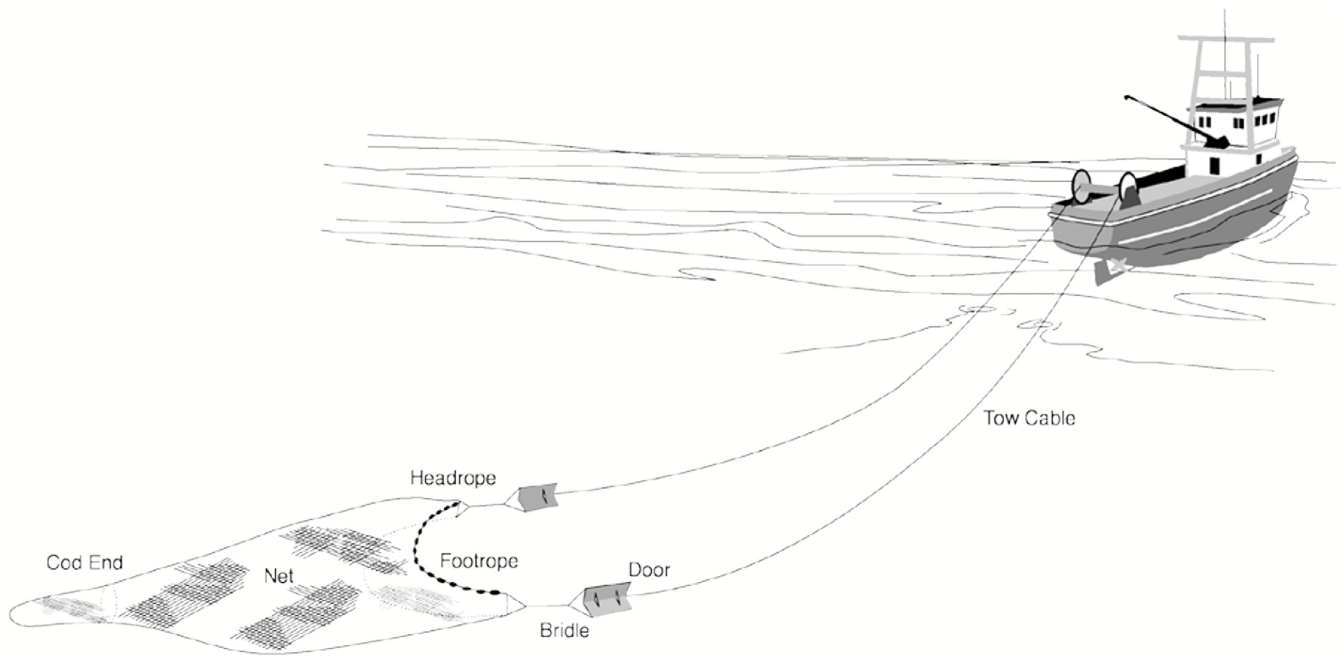
Figure 3.4-1. Pelagic Trawl



Source: Jennings et al. 2001

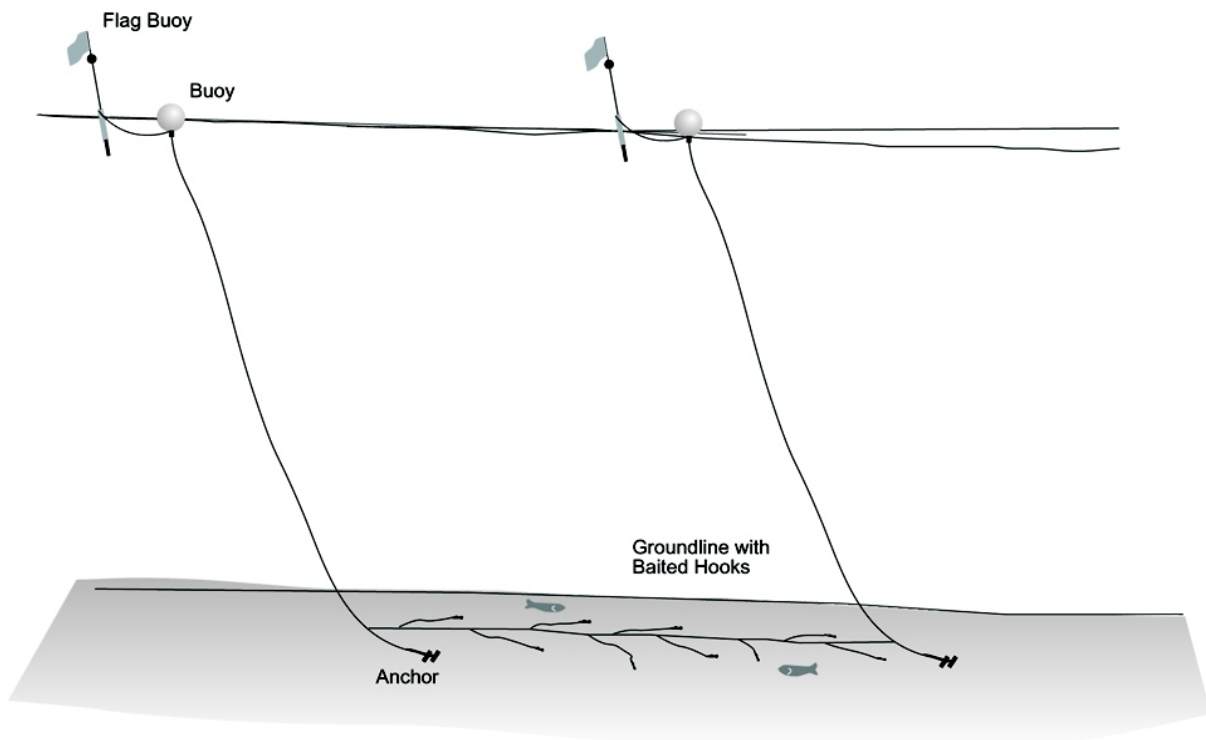
Permission to use figure requested by Craig Rose (pending)

Figure 3.4-2. Bottom Trawl



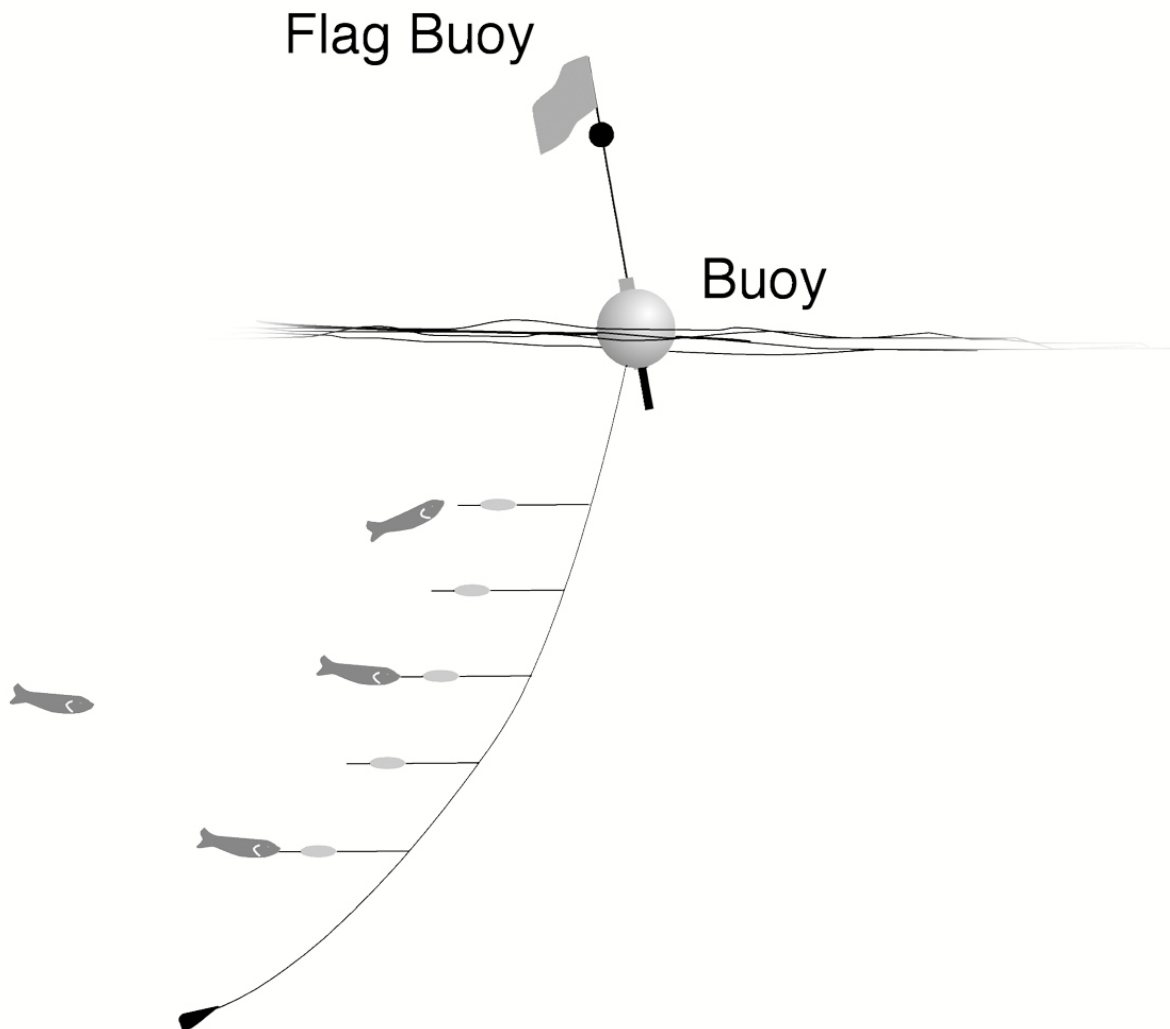
Source: K. Richards, Tetra Tech FW, Bothell, WA

Figure 3.4-3. Set Longline Gear



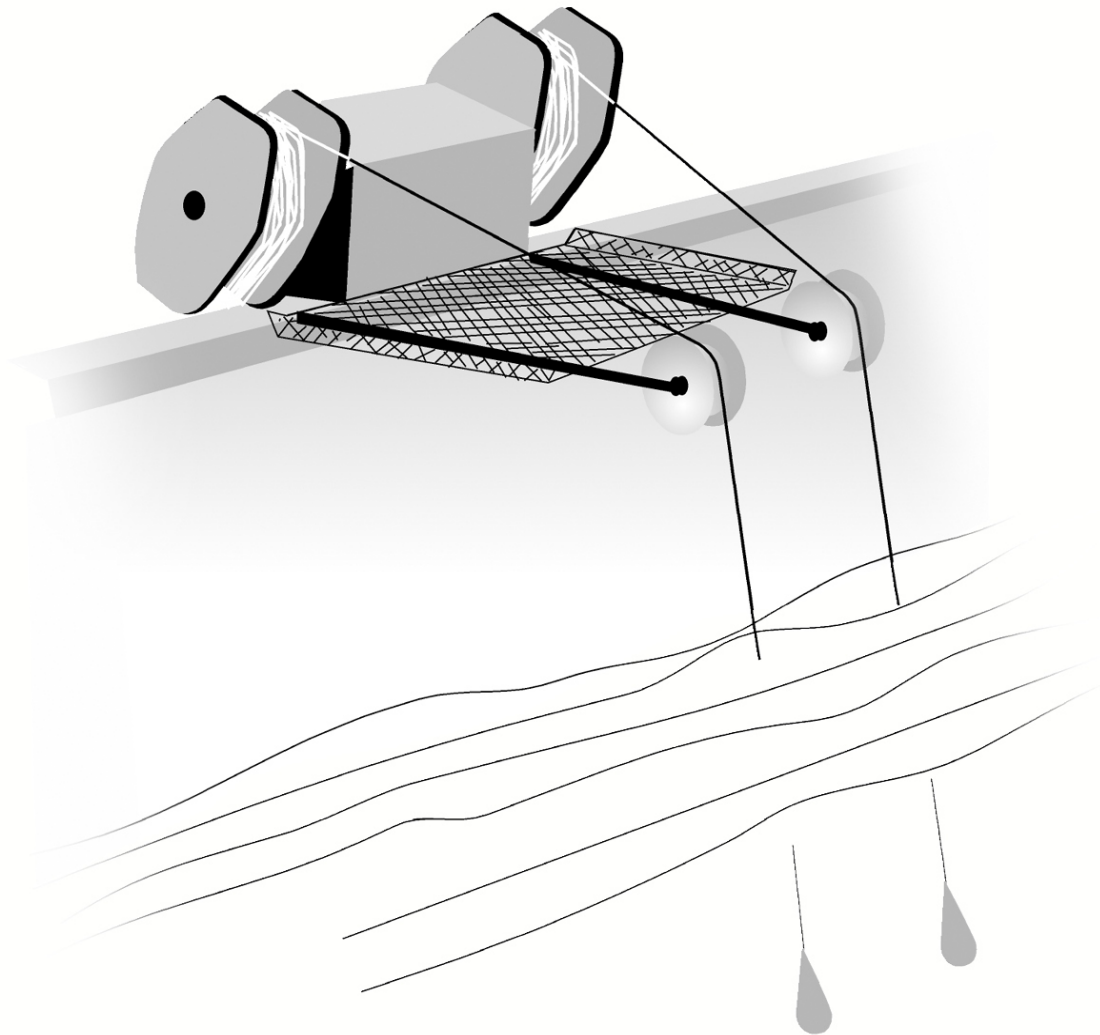
Source: K. Richards, Tetra Tech FW, Bothell, WA

Figure 3.4-4. Vertical Longline



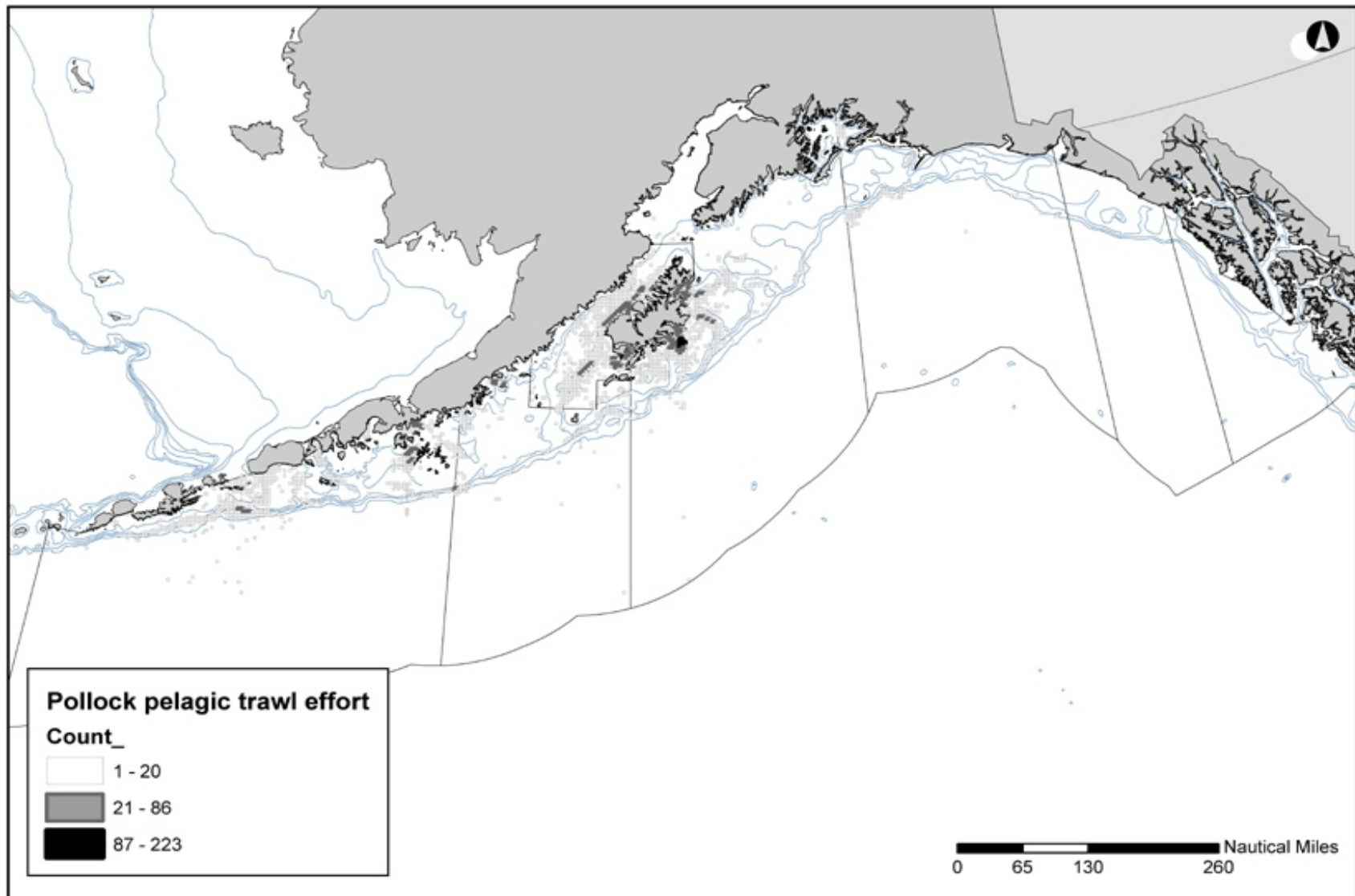
Source: K. Richards, Tetra Tech FW, Bothell, WA

Figure 3.4-5. Jig Machine



Source: K. Richards, Tetra Tech FW, Bothell, WA

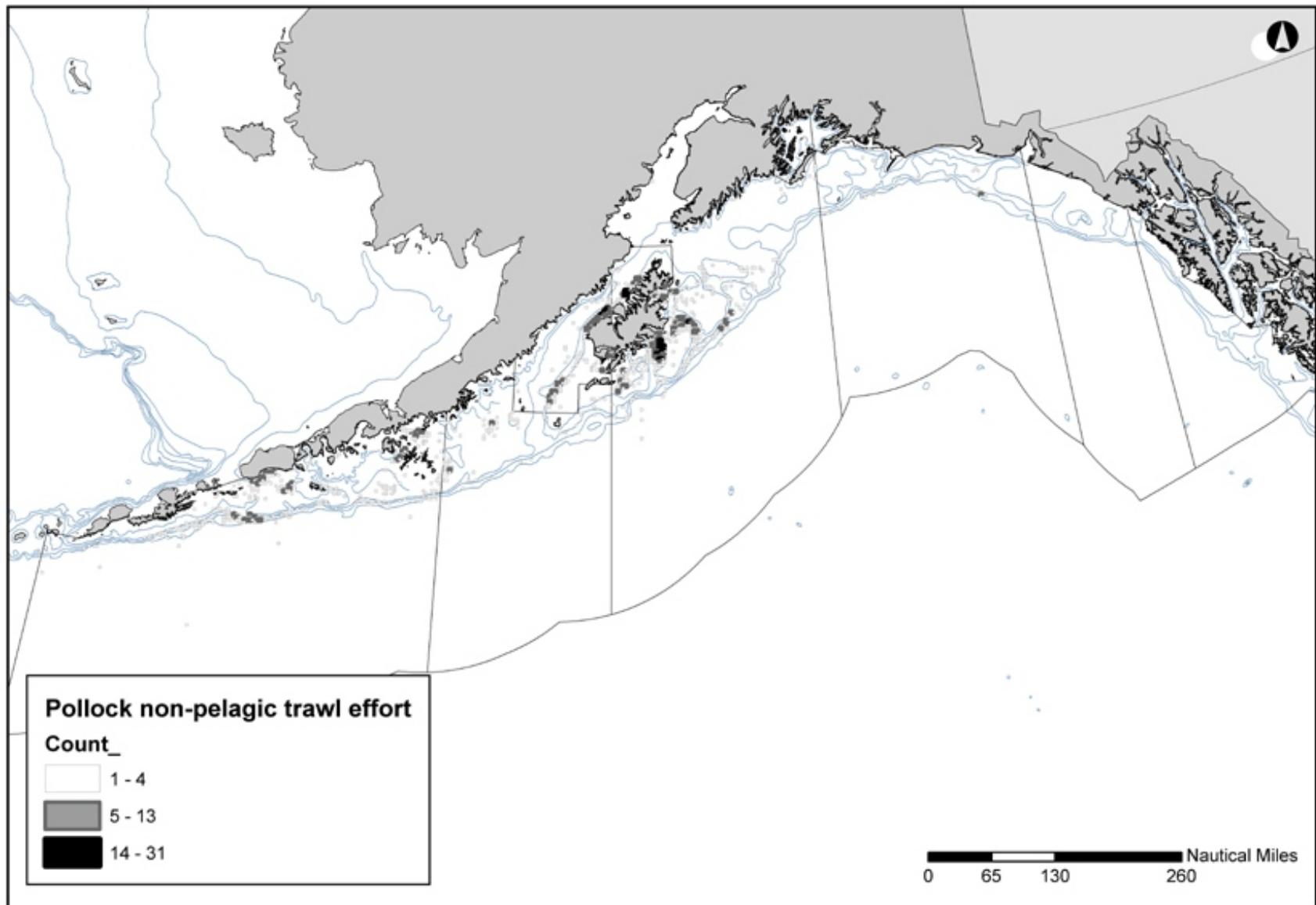
Figure 3.4-6. Gulf of Alaska: 1990-2002 Observed Pollock Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

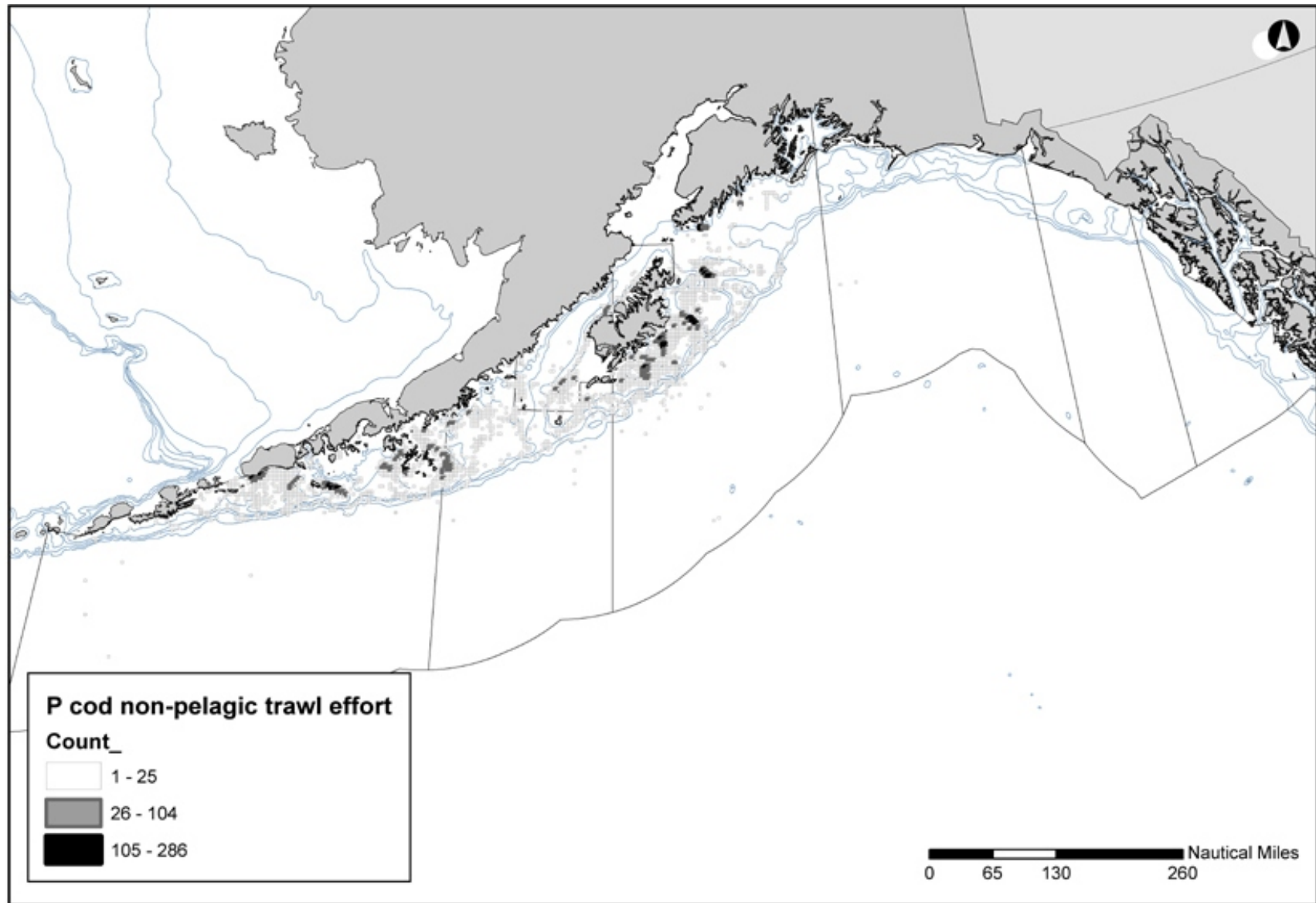
Figure 3.4-7. Gulf of Alaska: 1990-2002 Observed Pollock Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

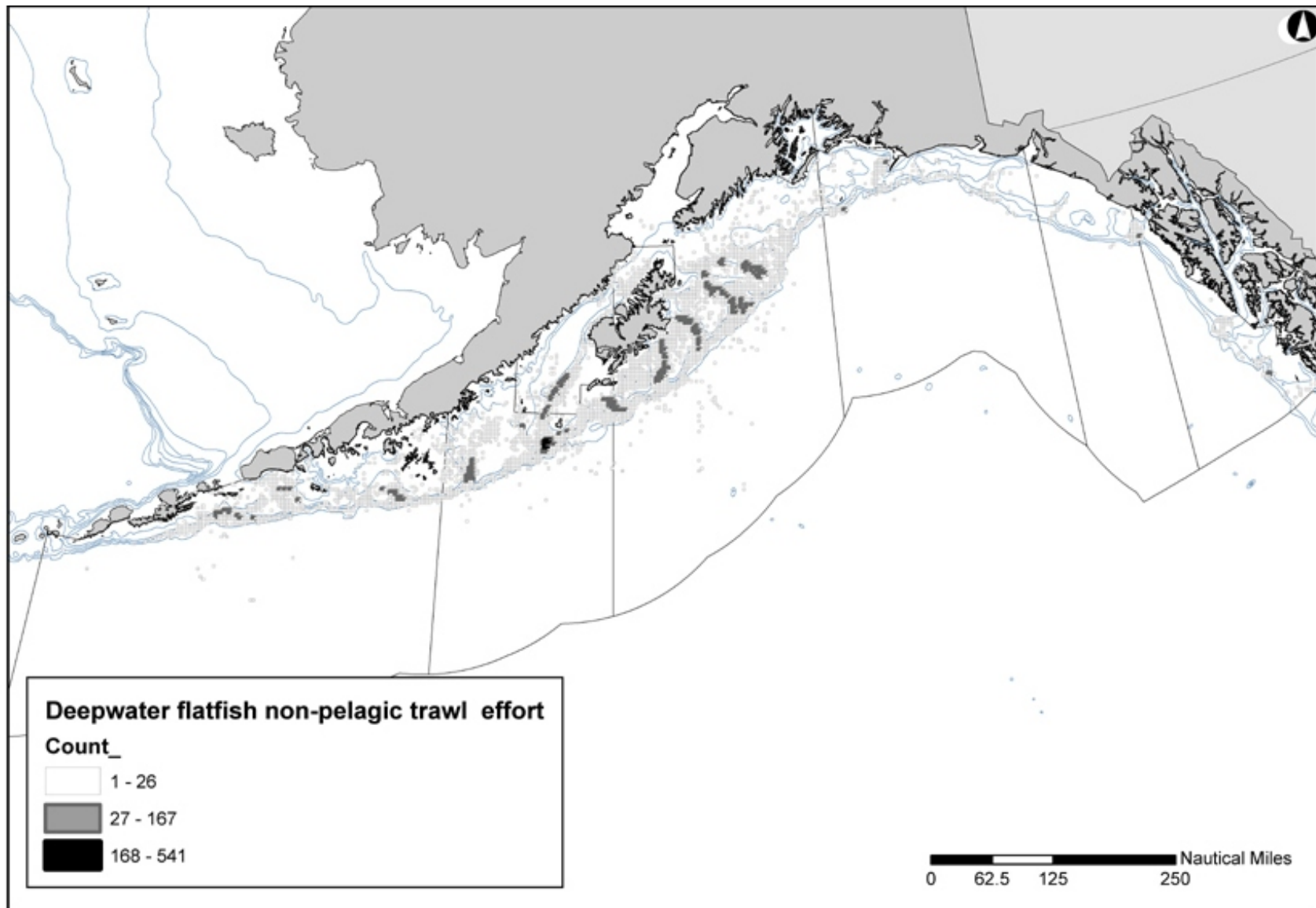
Figure 3.4-8. Gulf of Alaska: 1990-2002 Observed Pacific Cod Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

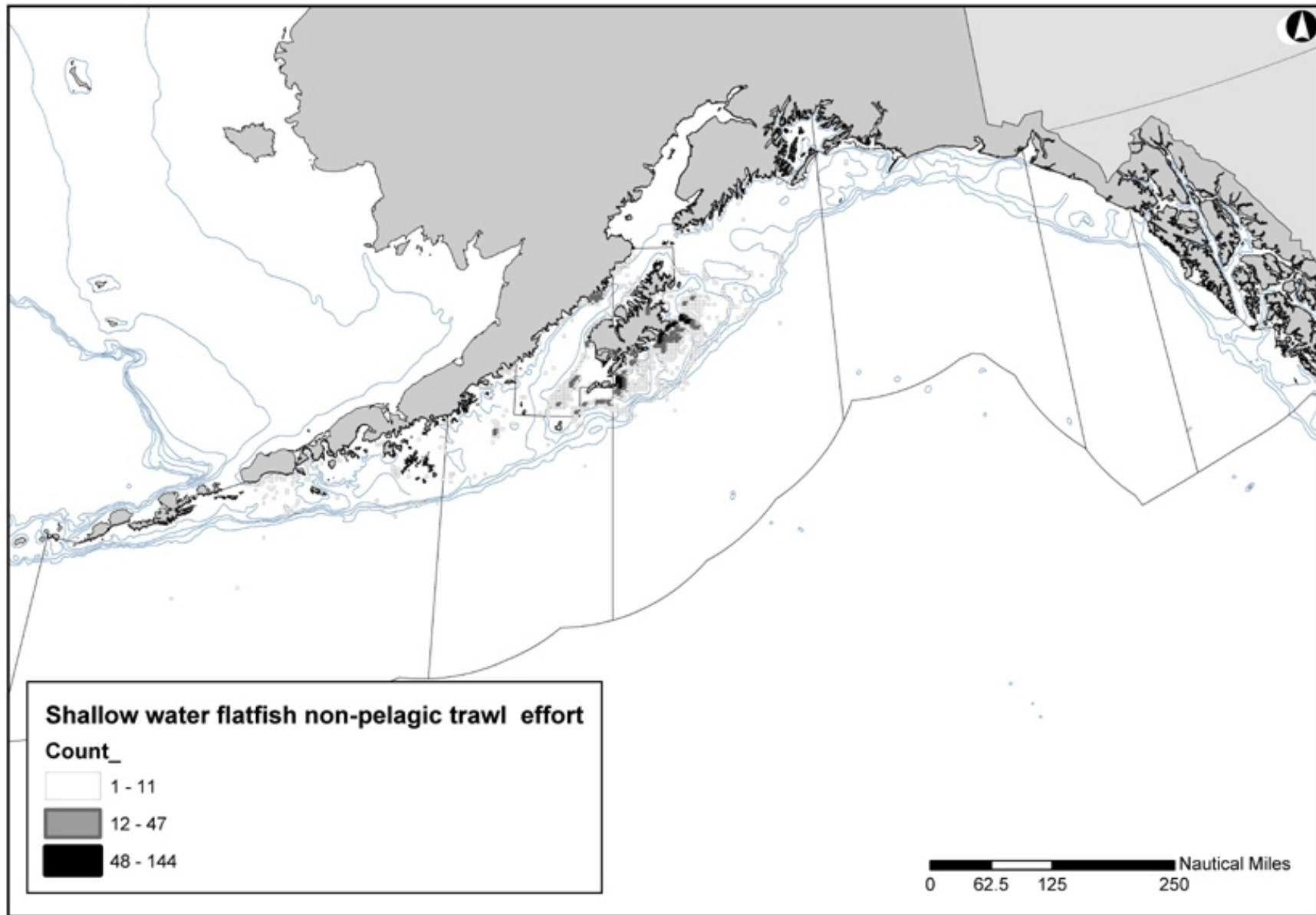
Figure 3.4-9. Gulf of Alaska: 1990-2002 Observed Deepwater Flatfish Non-Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

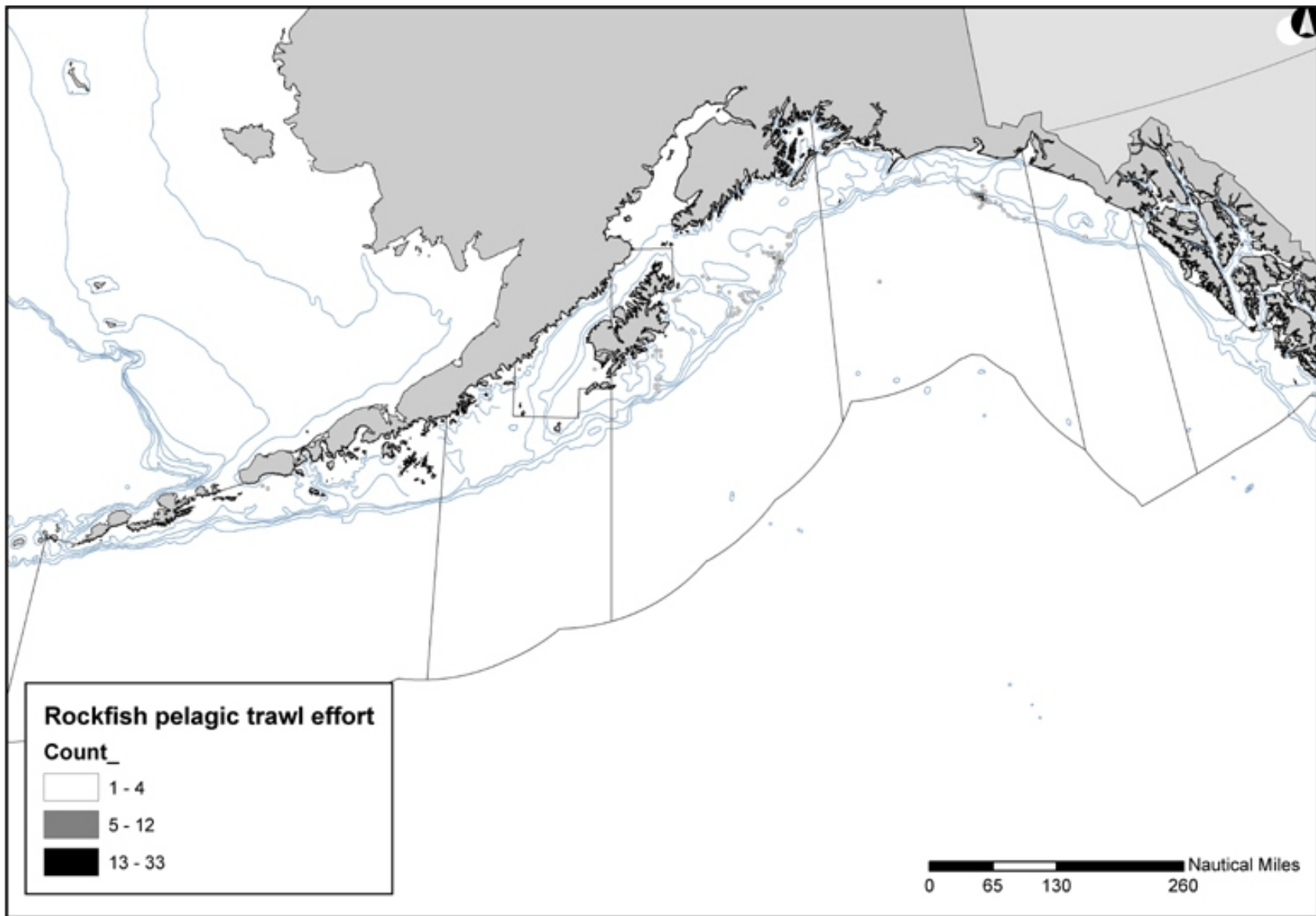
Figure 3.4-10. Gulf of Alaska: 1990-2002 Observed Shallow Water Flatfish Non-Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

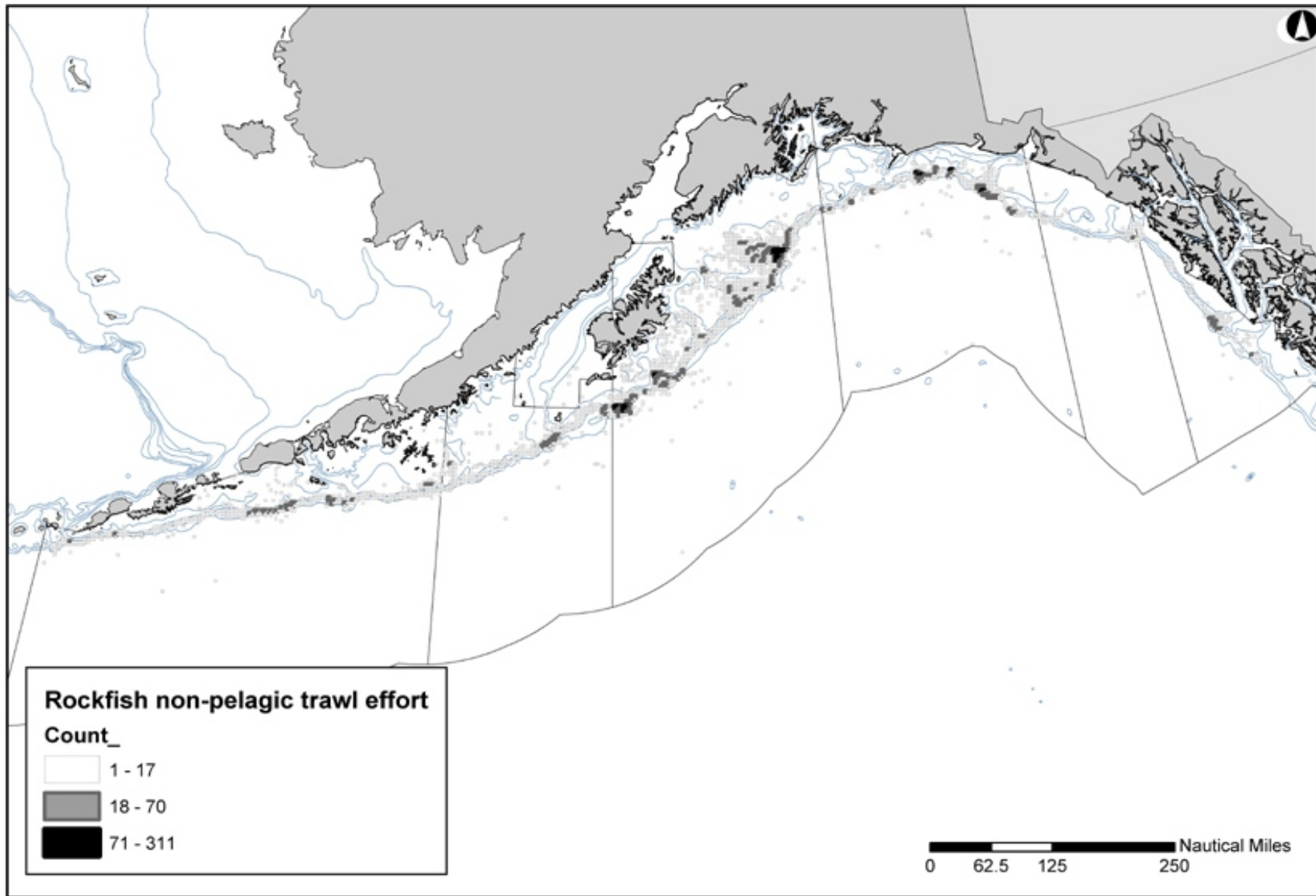
Figure 3.4-11. Gulf of Alaska: 1990-2002 Observed Slope Rockfish Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

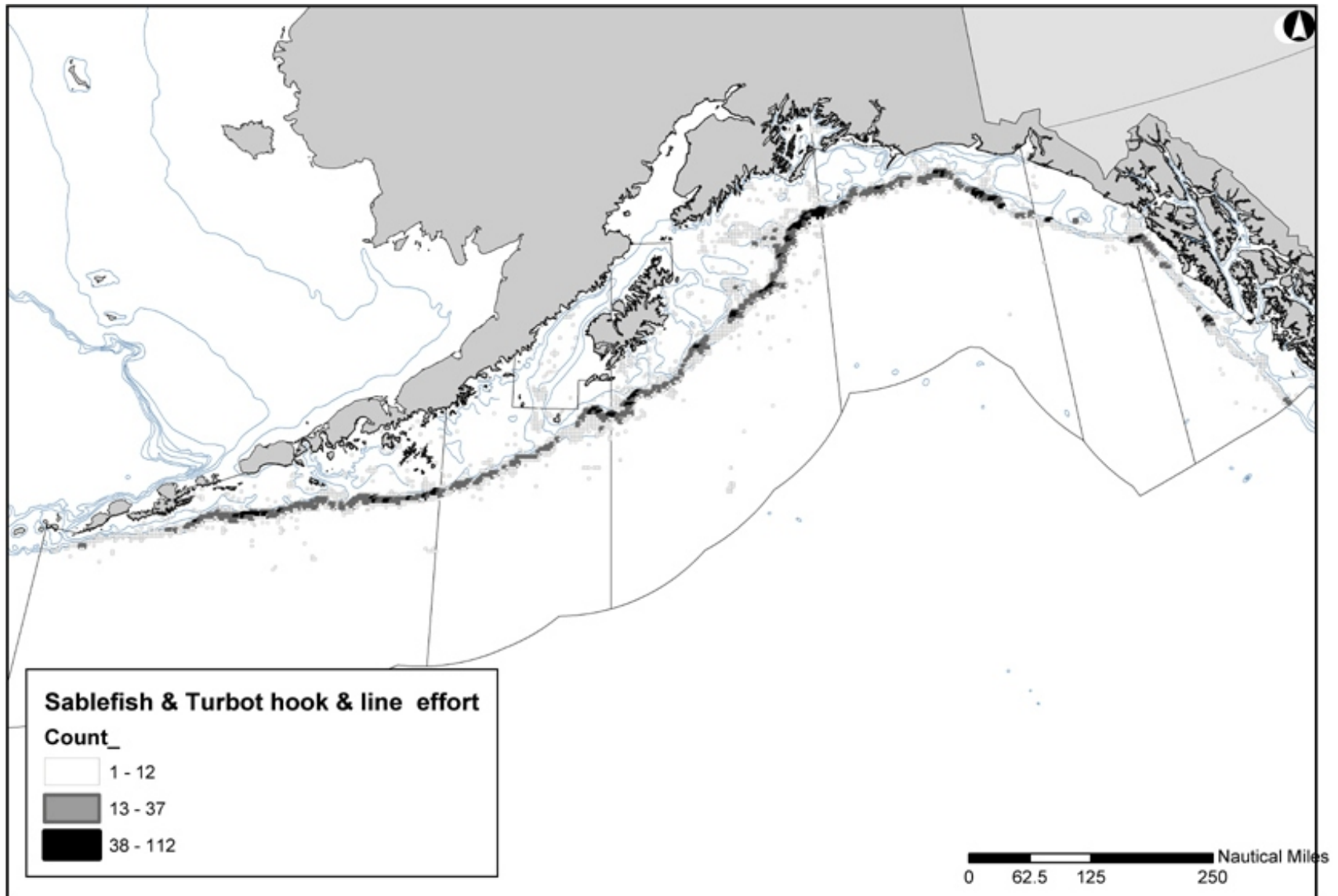
Figure 3.4-12. Gulf of Alaska: 1990-2002 Observed Rockfish Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

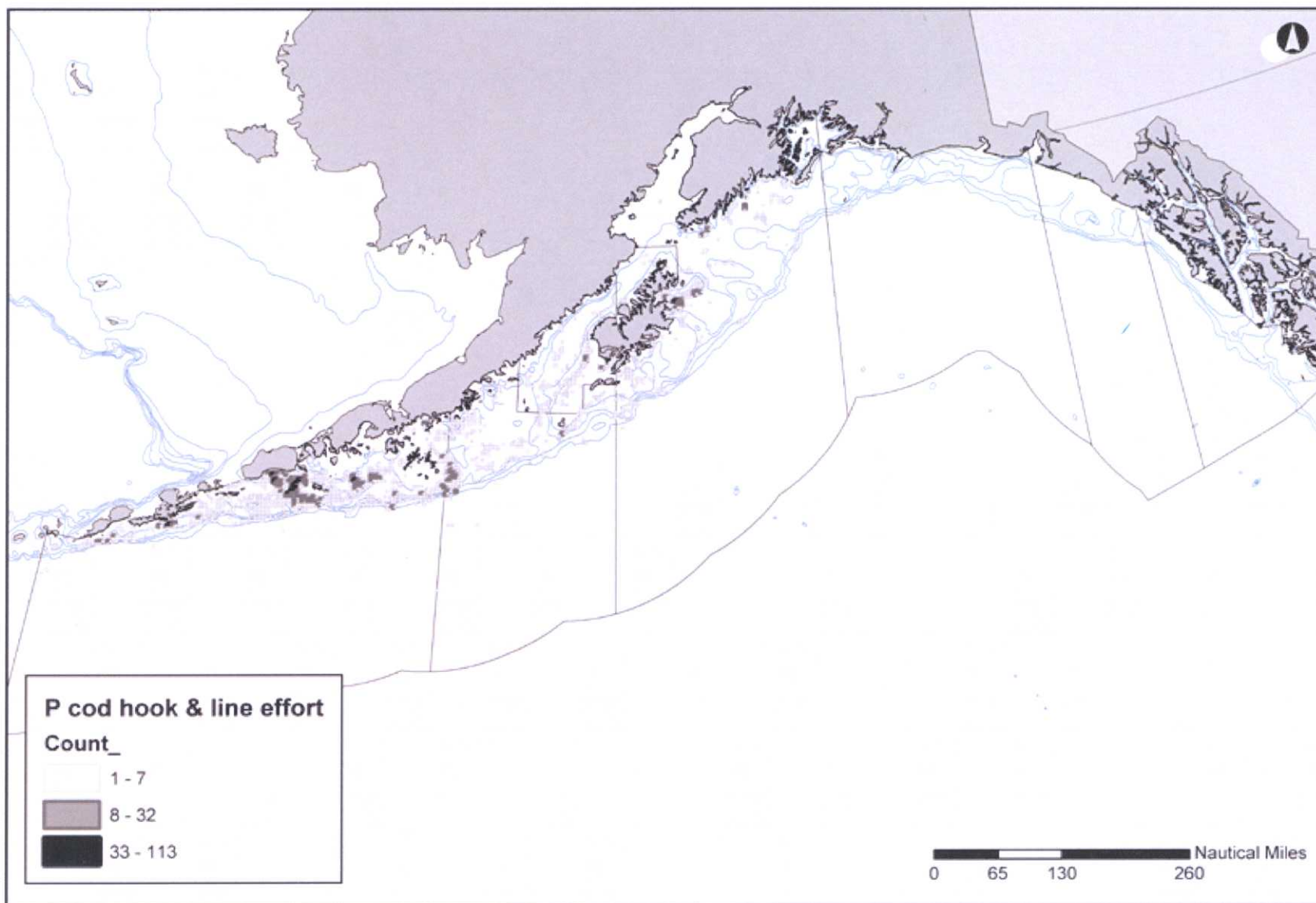
Figure 3.4-13. Gulf of Alaska: 1990-2002 Observed Sablefish and Turbot Hook and Line Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

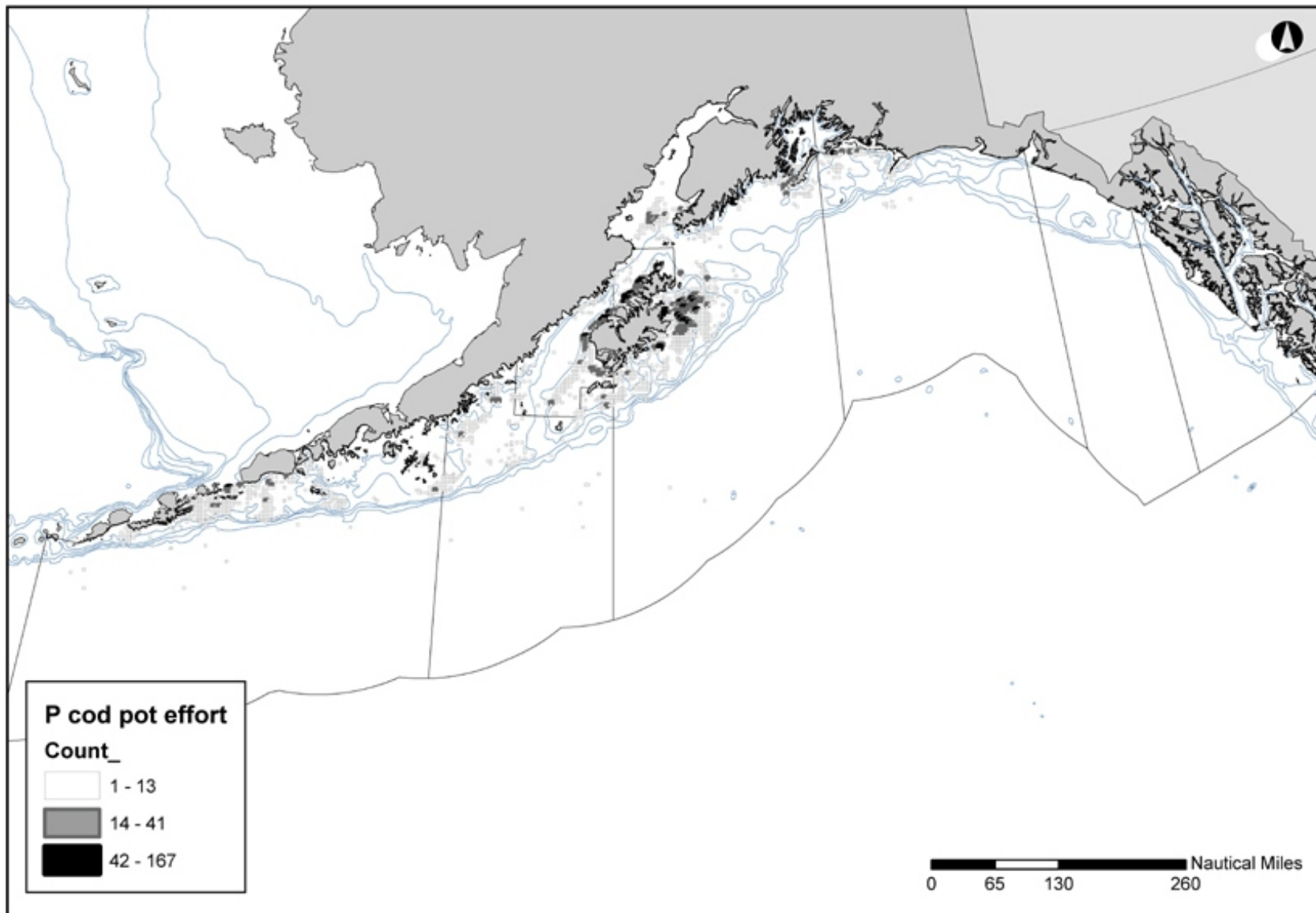
Figure 3.4-14. Gulf of Alaska: 1990-2002 Observed Pacific Cod Hook and Line Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

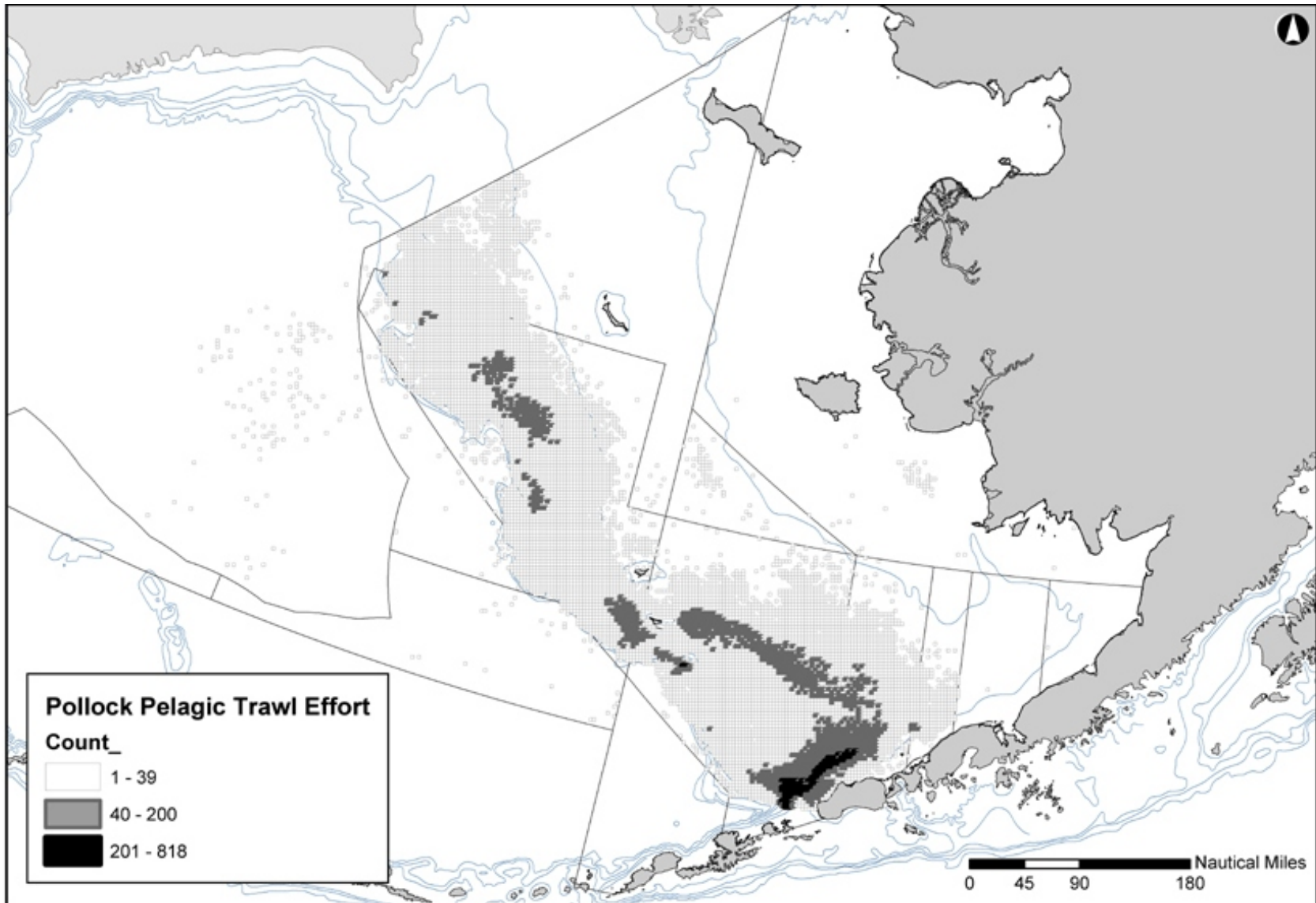
Figure 3.4-15. Gulf of Alaska: 1990-2002 Observed Pacific Cod Pot Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

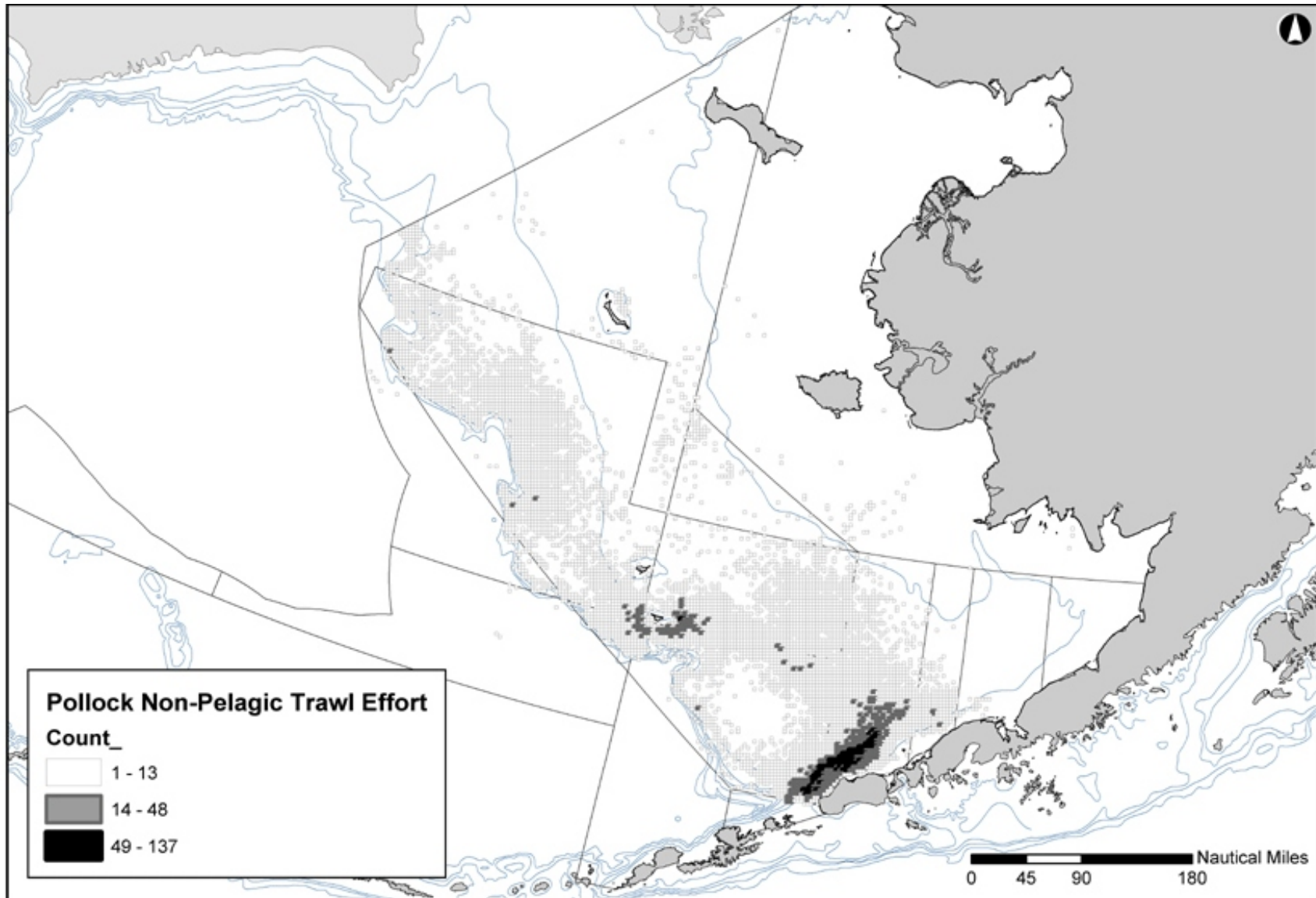
Figure 3.4-16. Bering Sea: 1990-2002 Observed Pollock Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

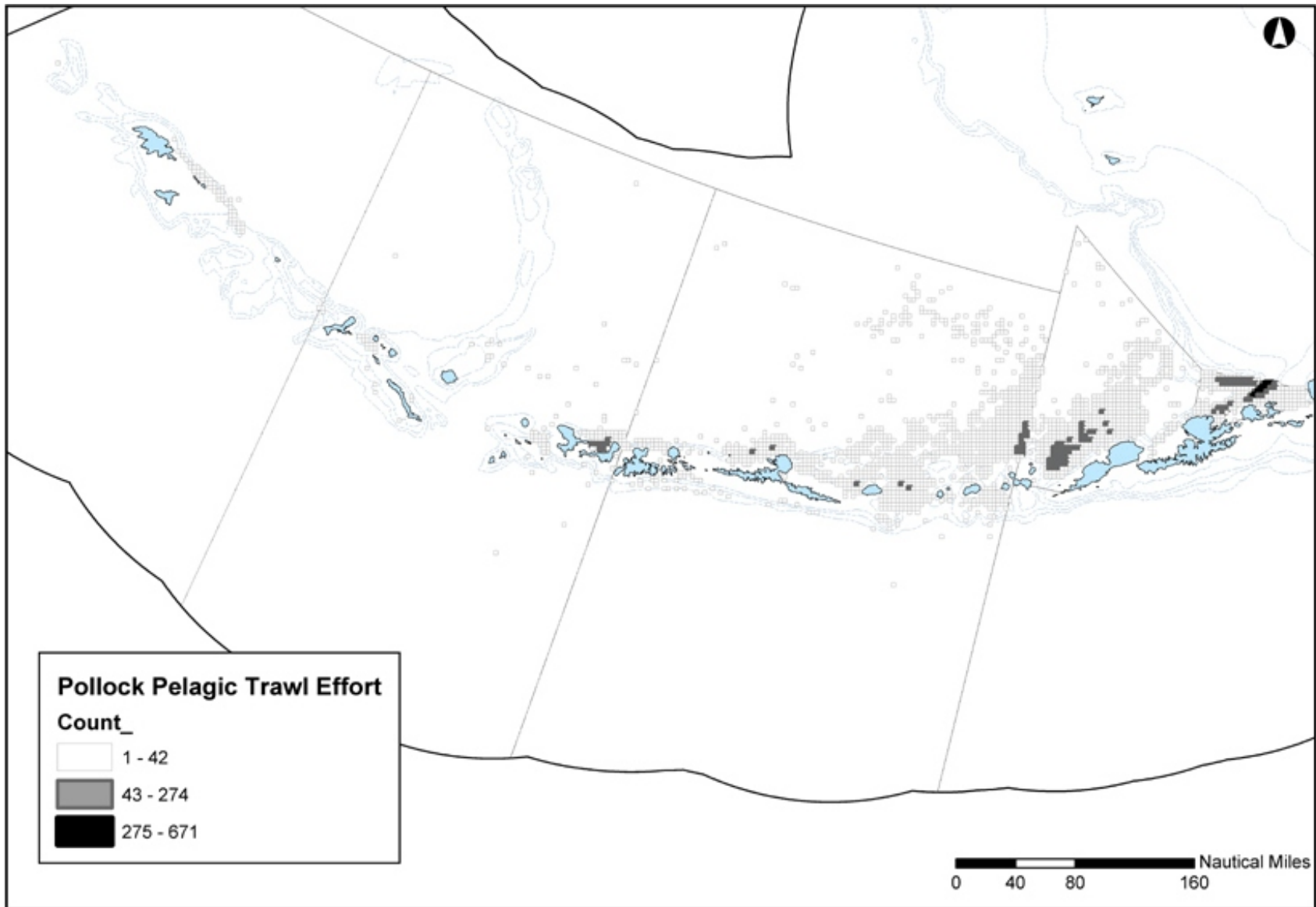
Figure 3.4-17. Bering Sea: 1990-2002 Observed Pollock Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

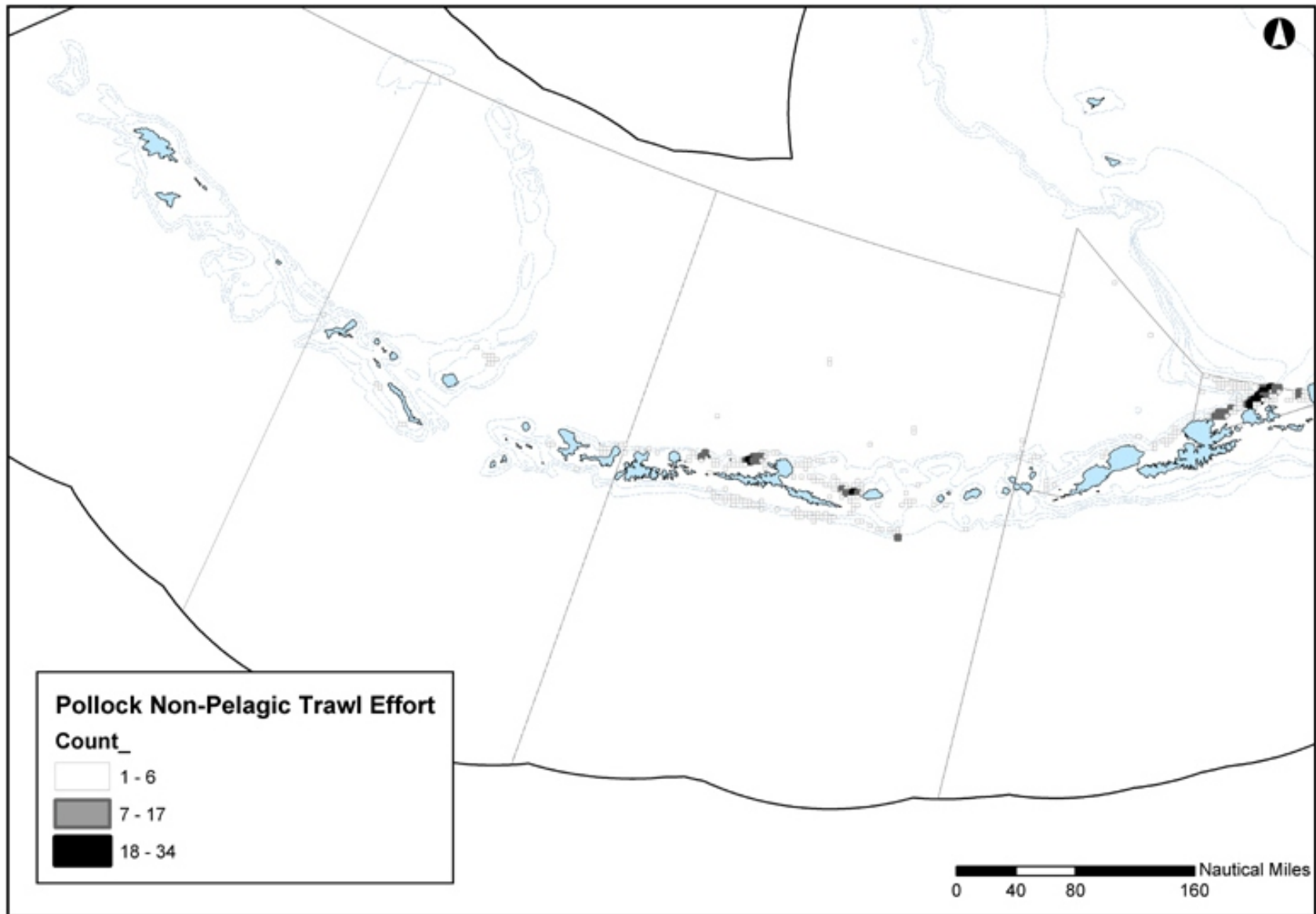
Figure 3.4-18. Aleutian Islands: 1990-2002 Observed Pollock Pelagic Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

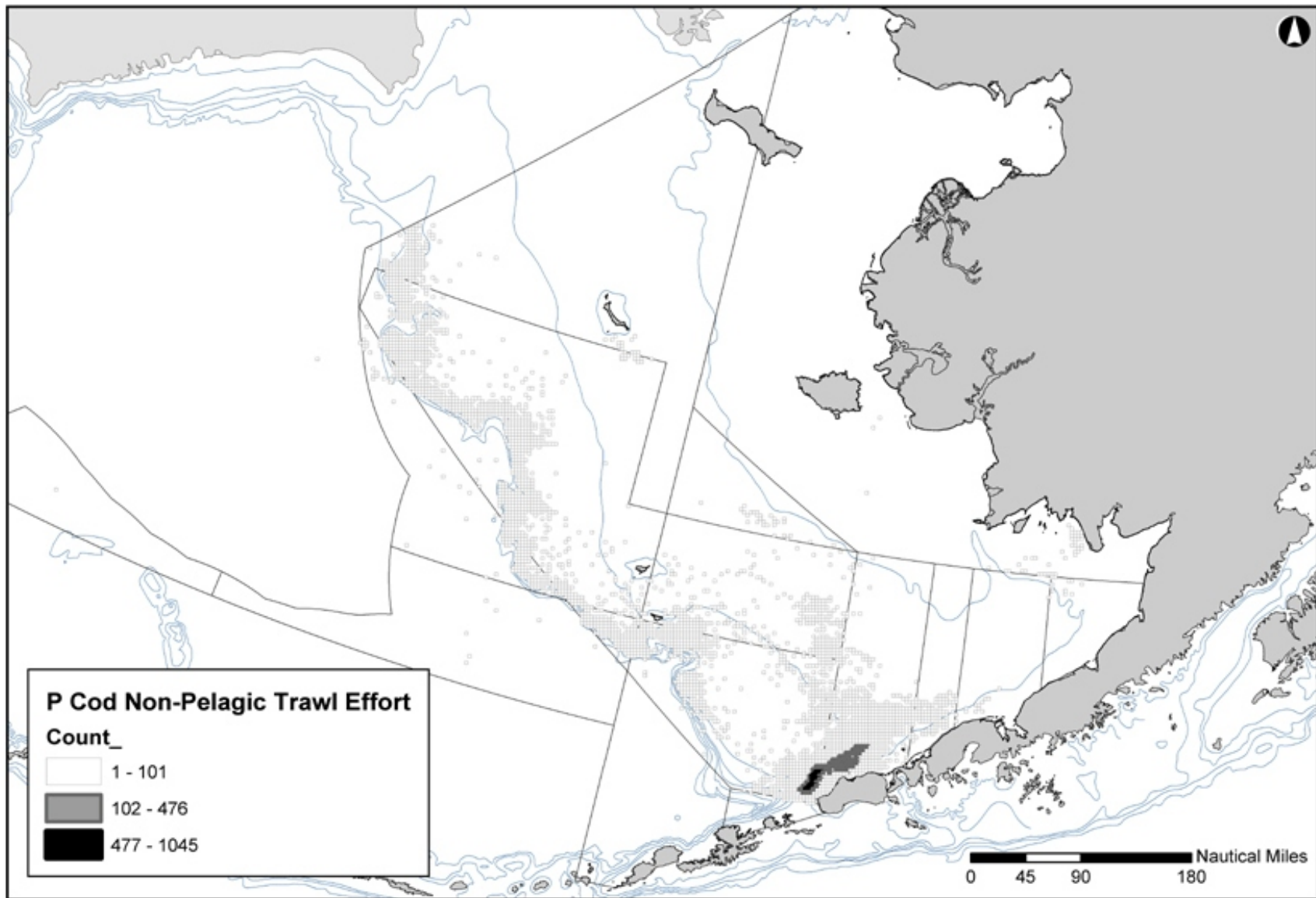
Figure 3.4-19. Aleutian Islands: 1990-2002 Observed Pollock Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

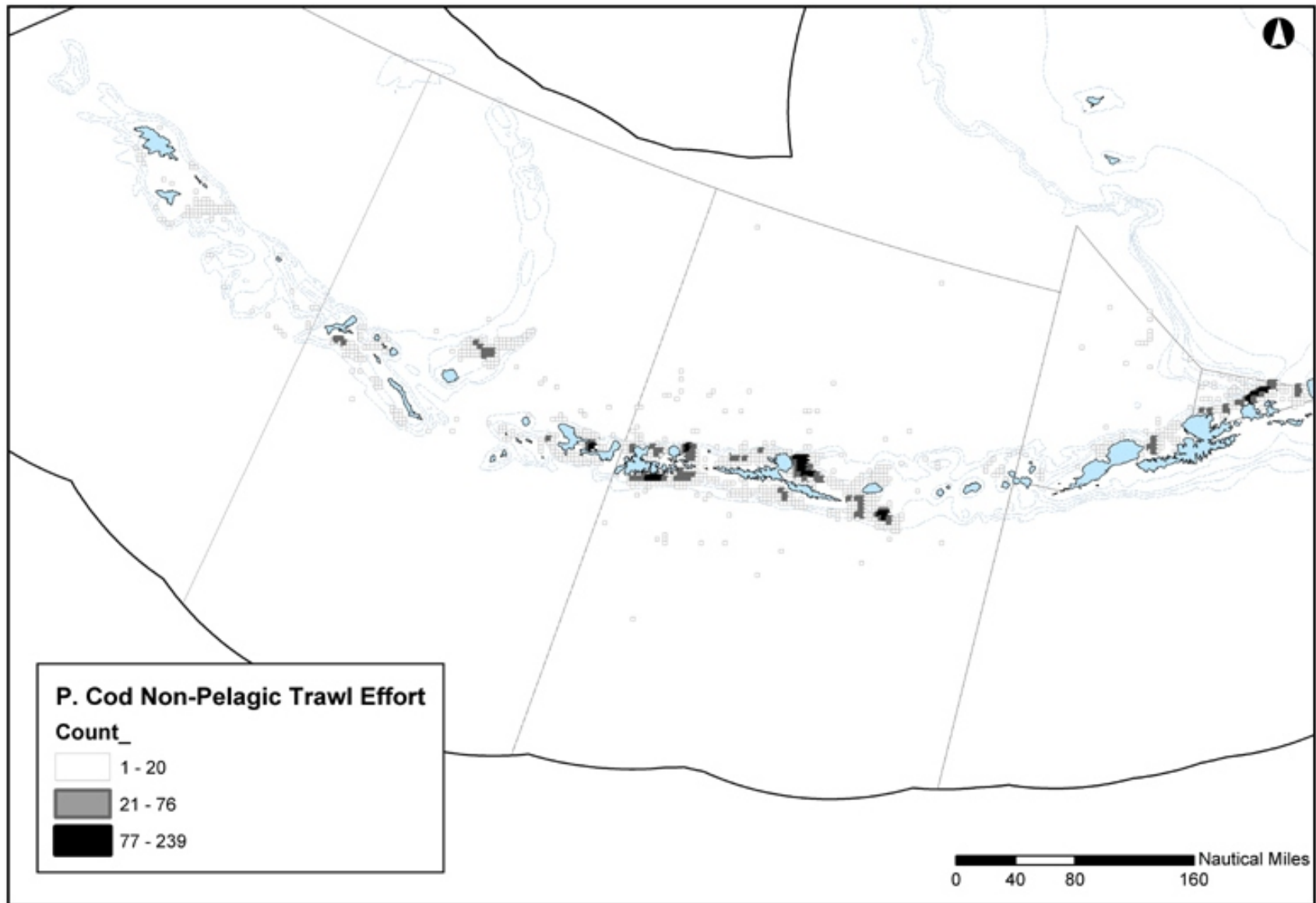
Figure 3.4-20. Bering Sea: 1990-2002 Observed Pacific Cod Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

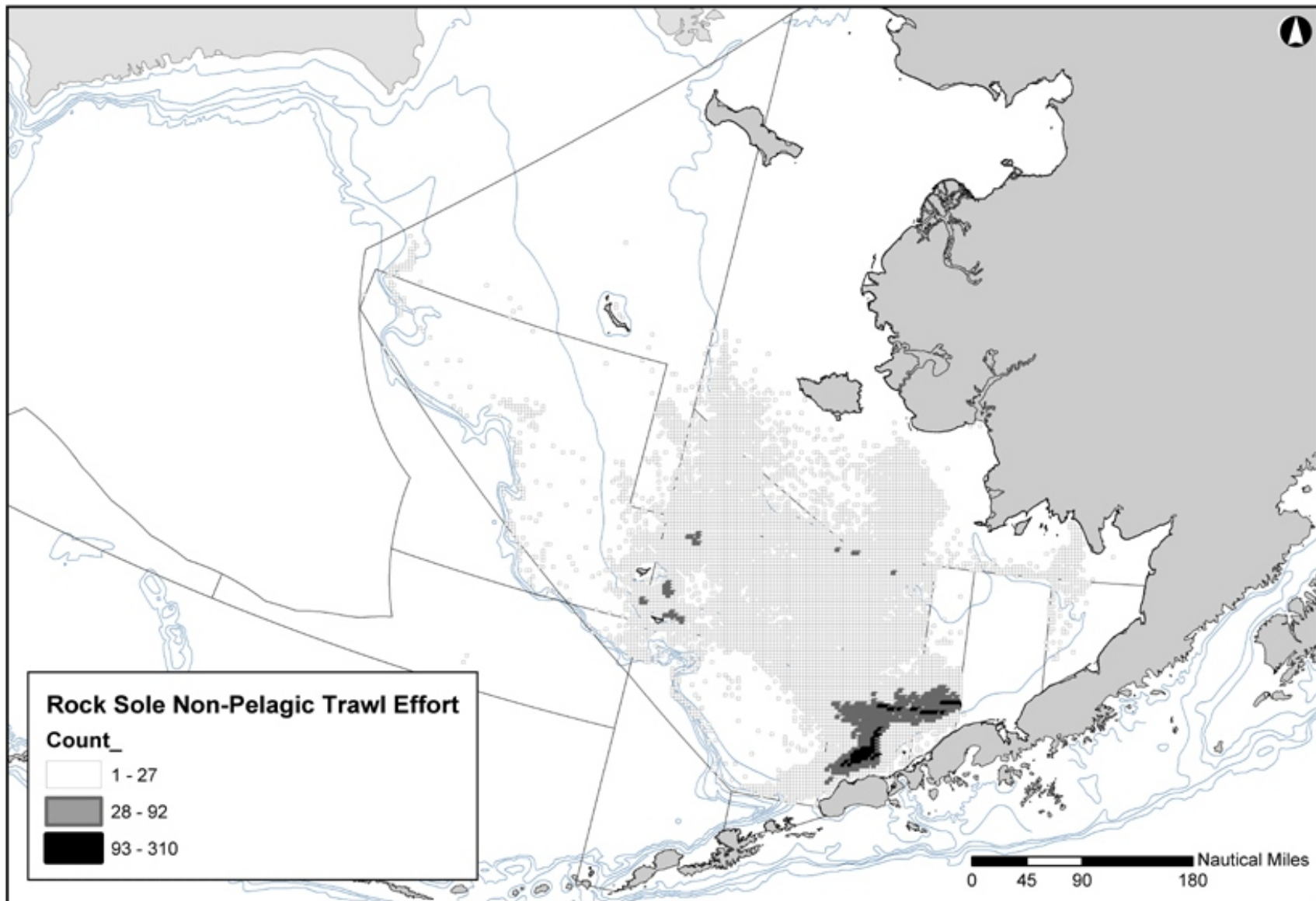
Figure 3.4-21. Aleutian Islands: 1990-2002 Observed Pacific Cod Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

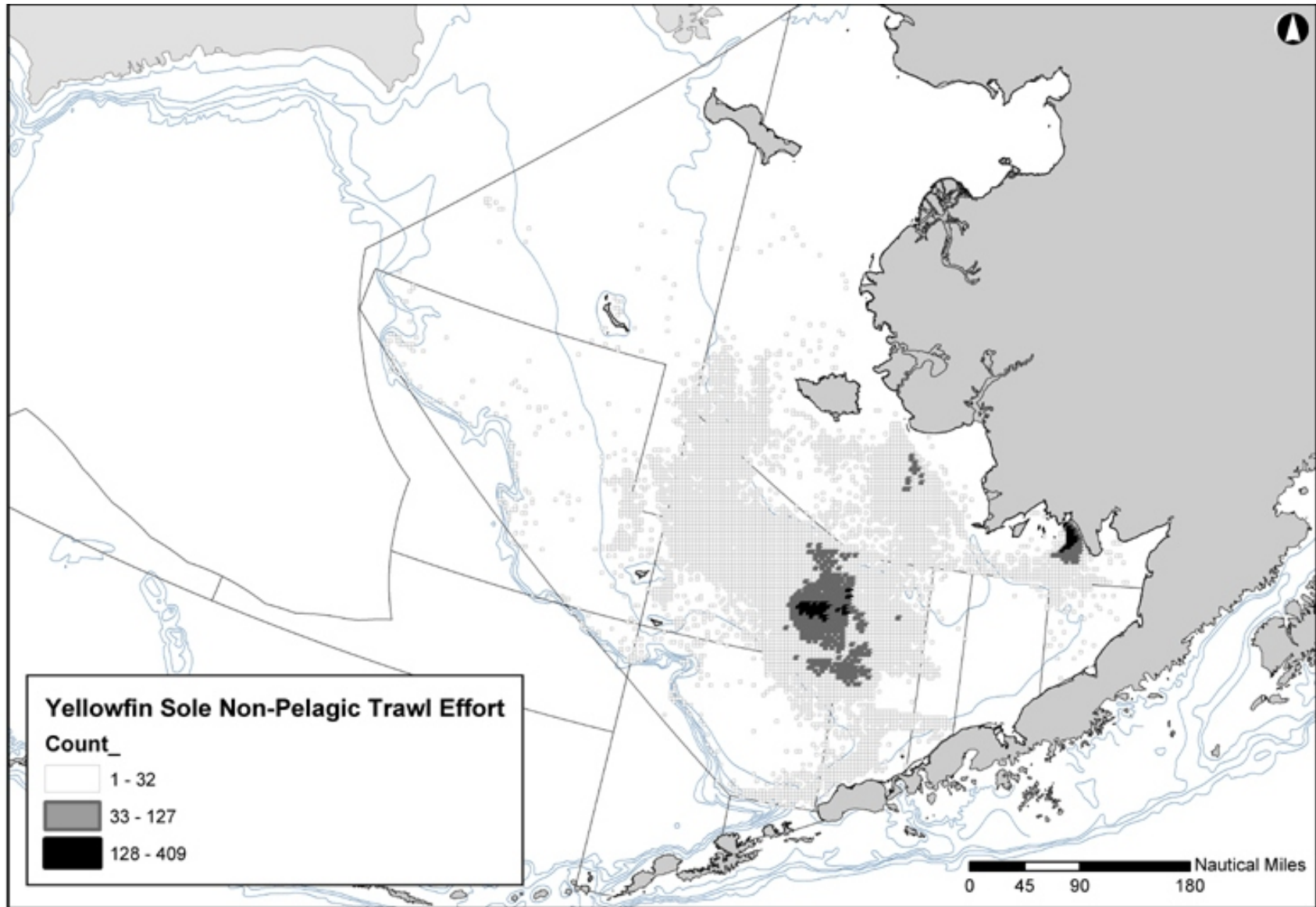
Figure 3.4-22. Bering Sea: 1990-2002 Observed Rock Sole Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

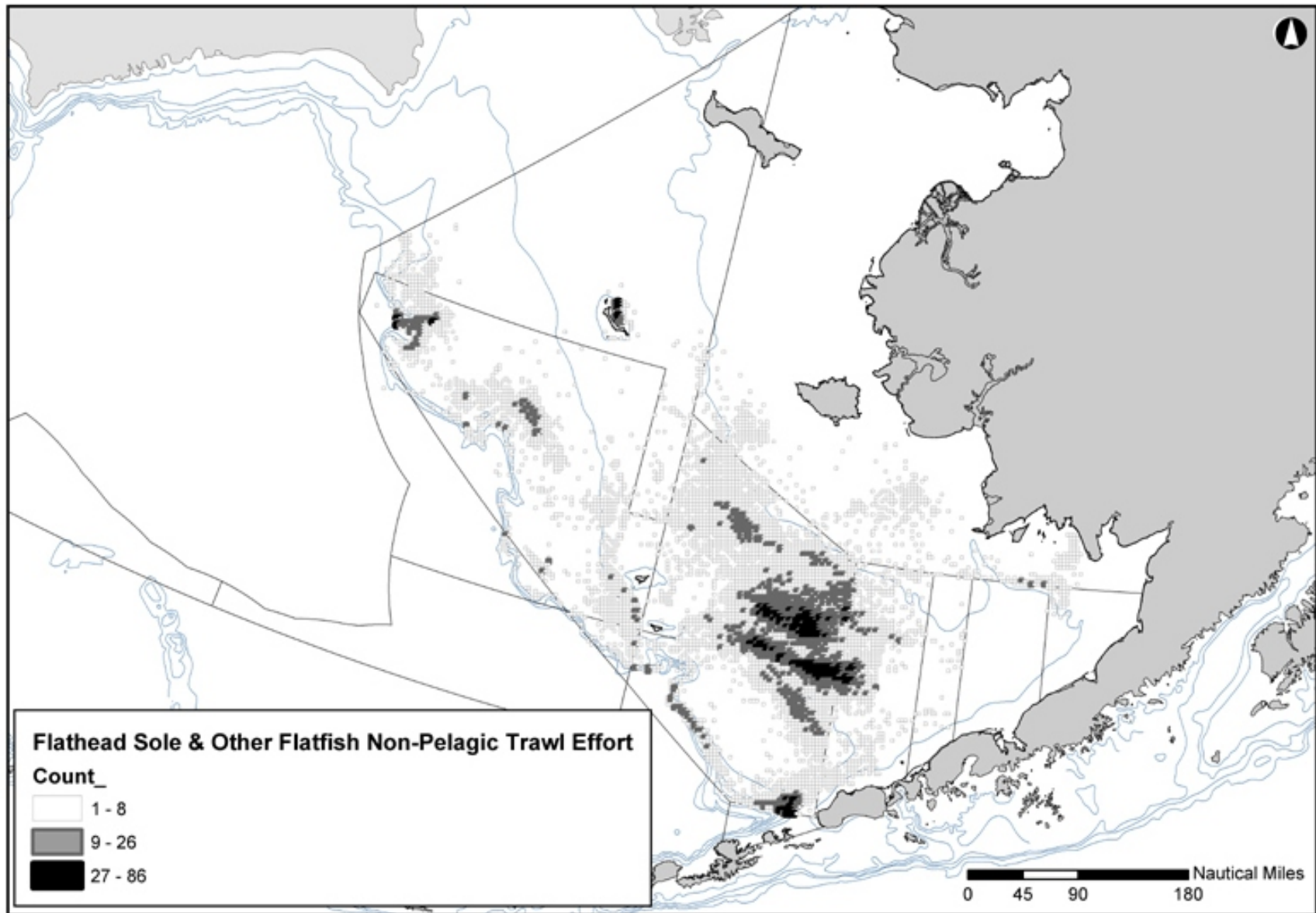
Figure 3.4-23. Bering Sea: 1990-2002 Observed Yellowfin Sole Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

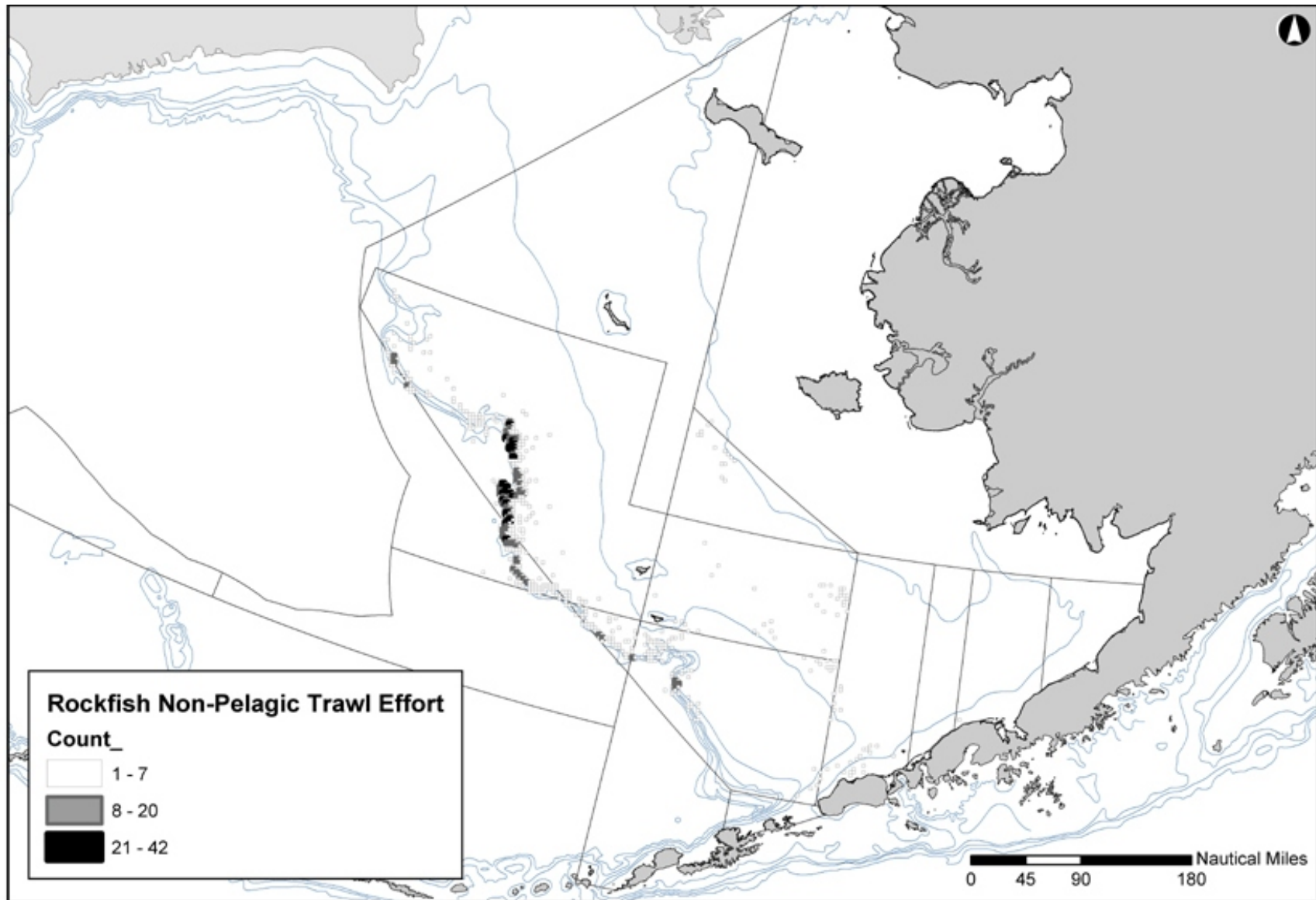
Figure 3.4-24. Bering Sea: 1990-2002 Observed Flathead Sole and Other Flatfish Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

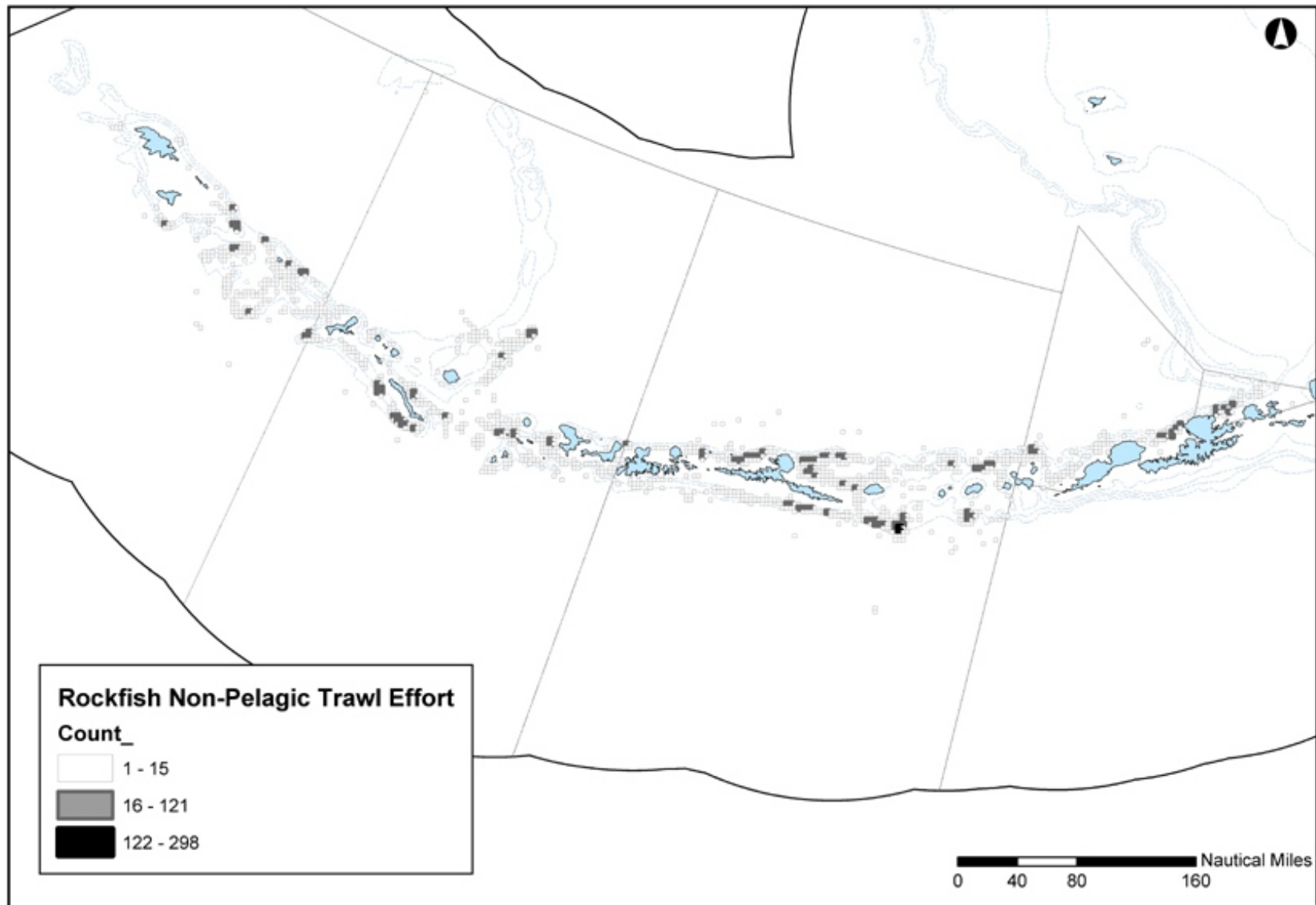
Figure 3.4-25. Bering Sea: 1990-2002 Observed Rockfish Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

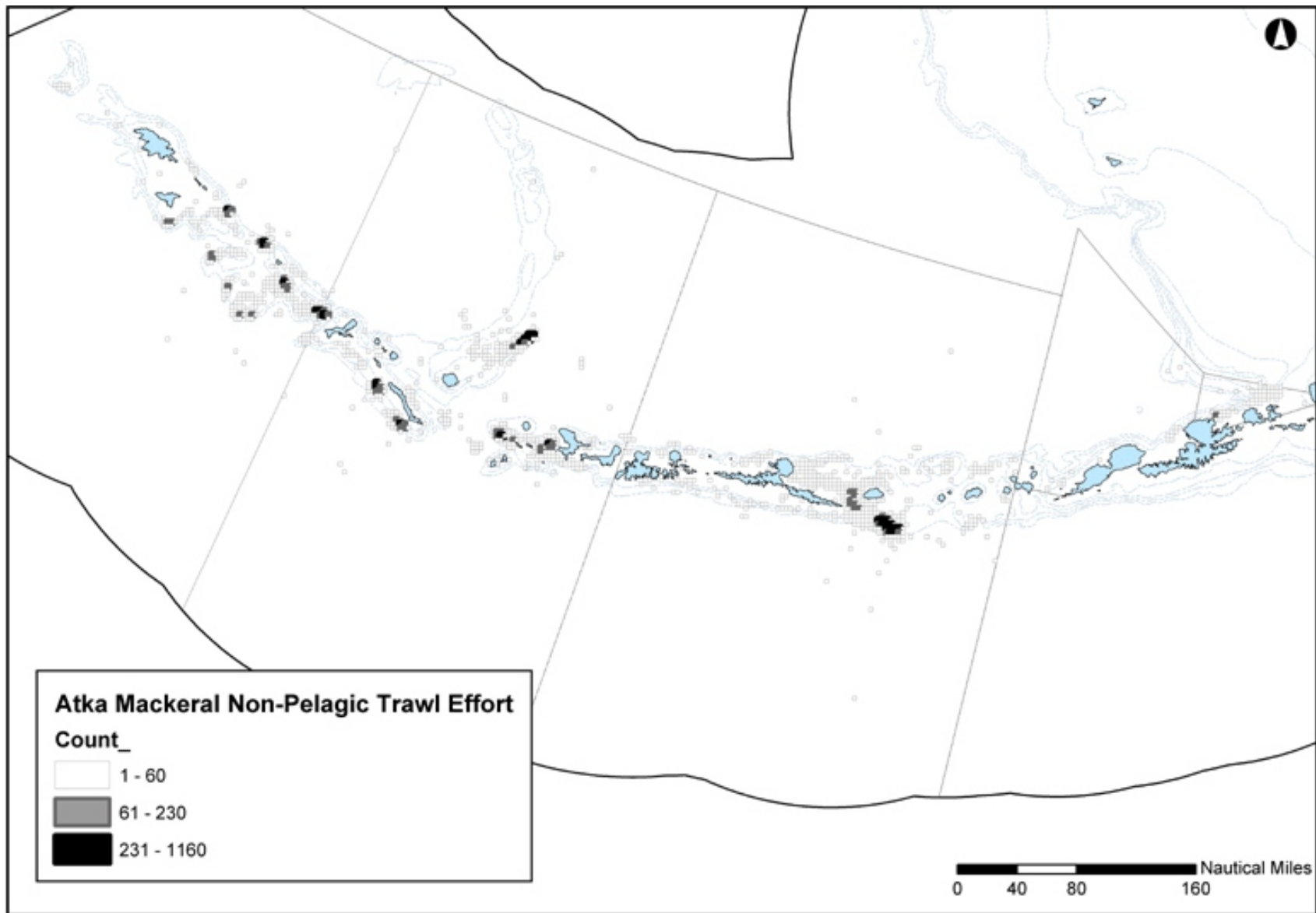
Figure 3.4-26. Aleutian Islands: 1990-2002 Observed Rockfish Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

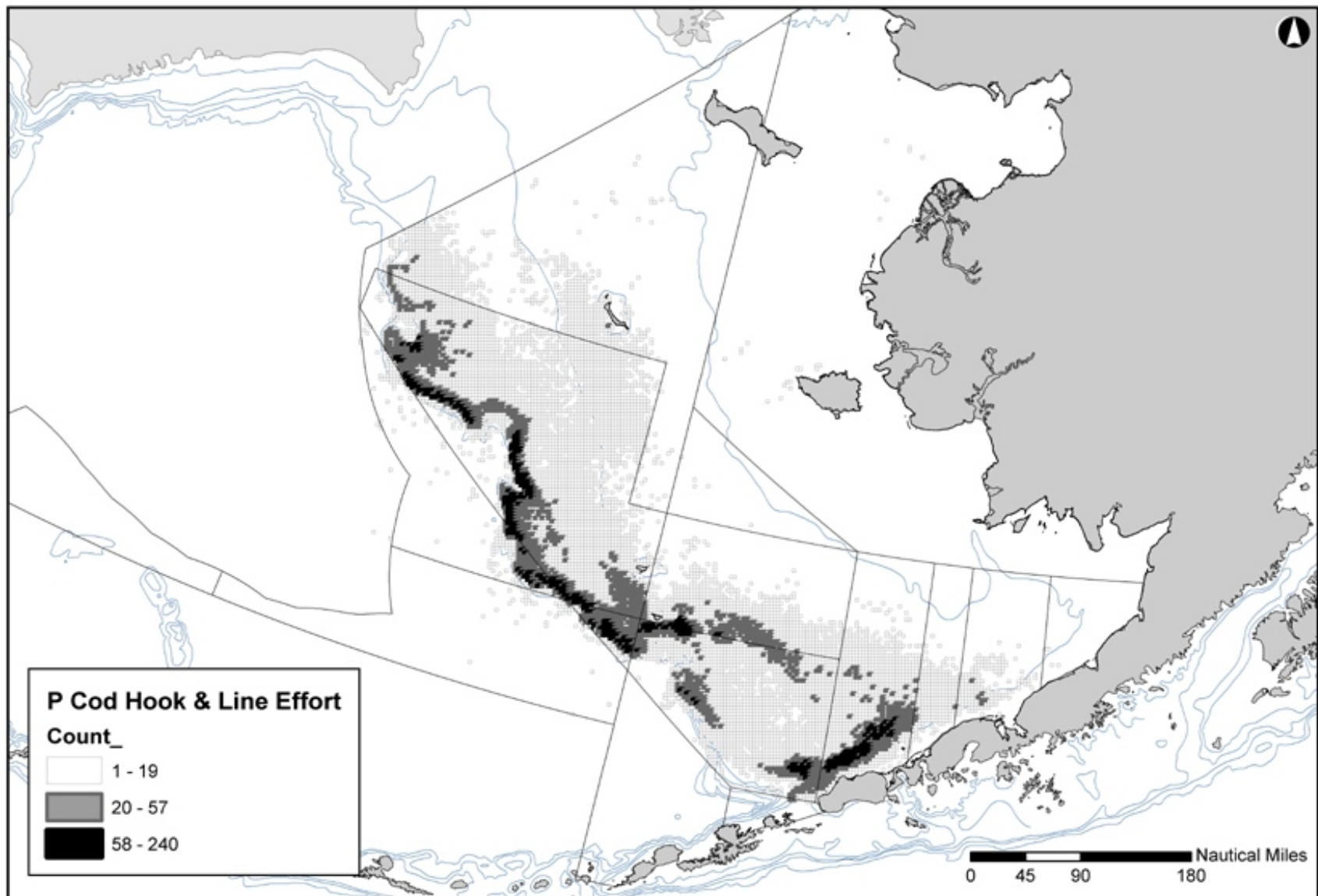
Figure 3.4-27. Aleutian Islands: 1990-2002 Observed Atka Mackerel Non-Pelagic (Bottom) Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

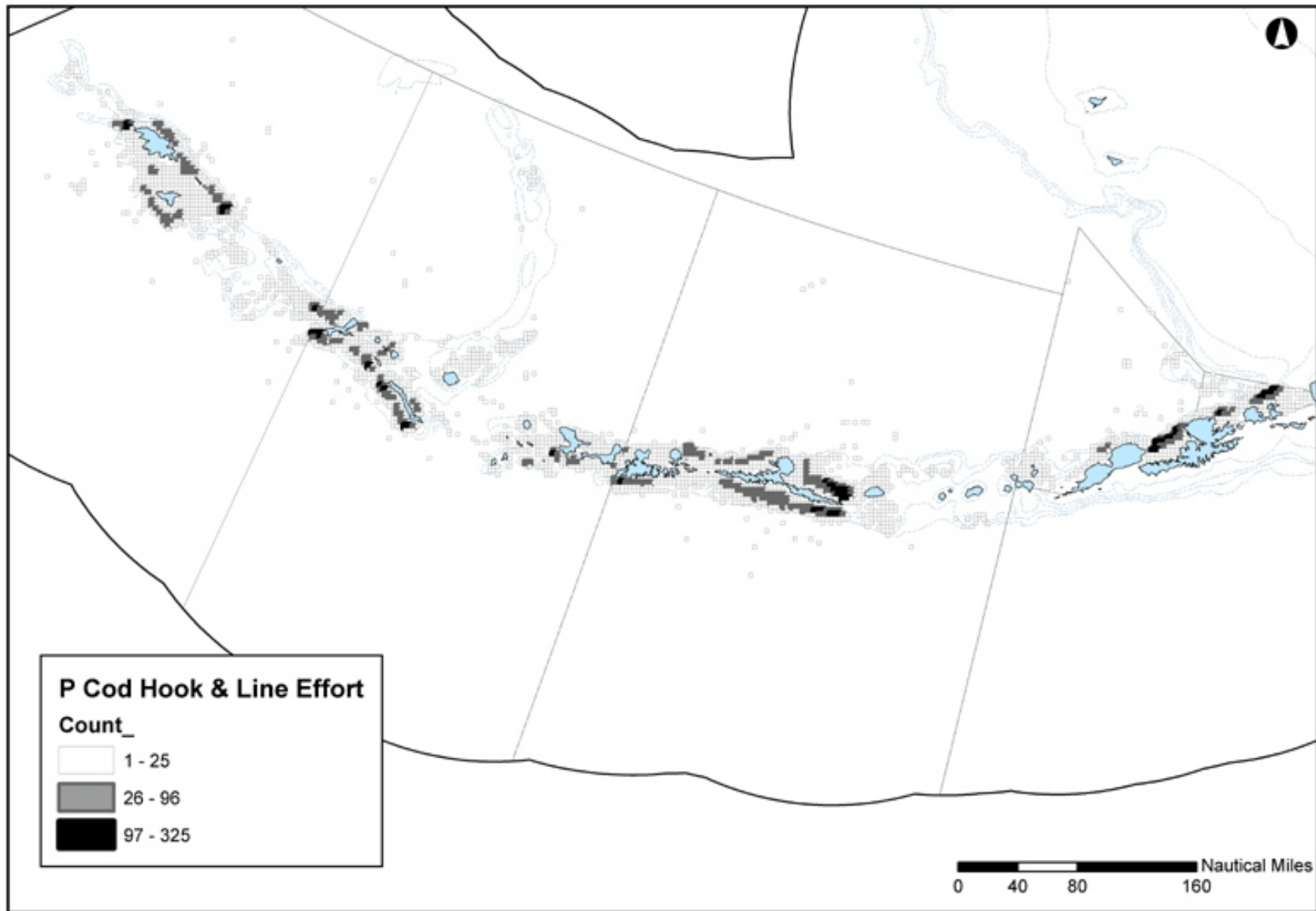
Figure 3.4-28. Bering Sea: 1990-2002 Observed Pacific Cod Hook and Line Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

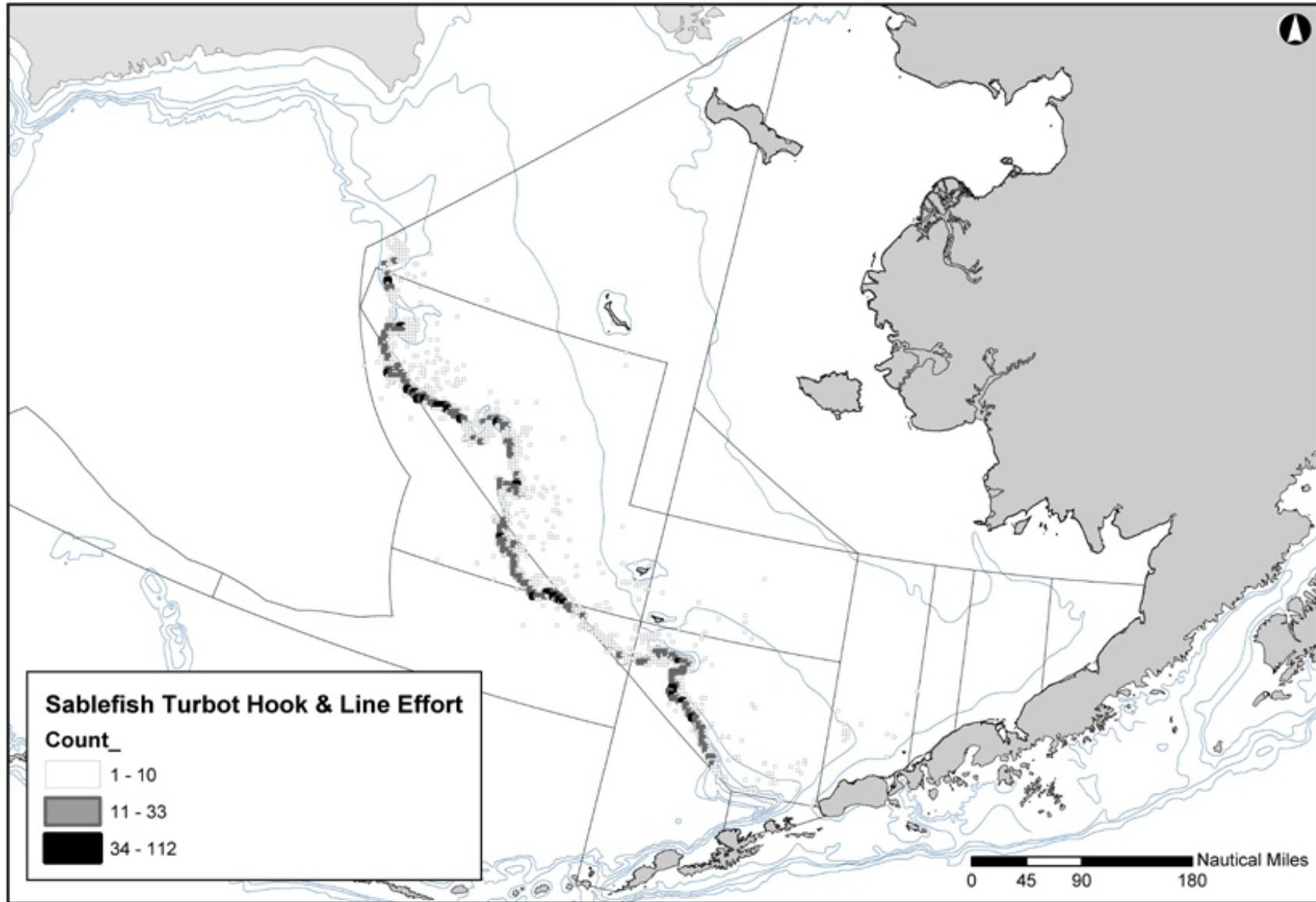
Figure 3.4-29. Aleutian Islands: 1990-2002 Observed Pacific Cod Hook and Line Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

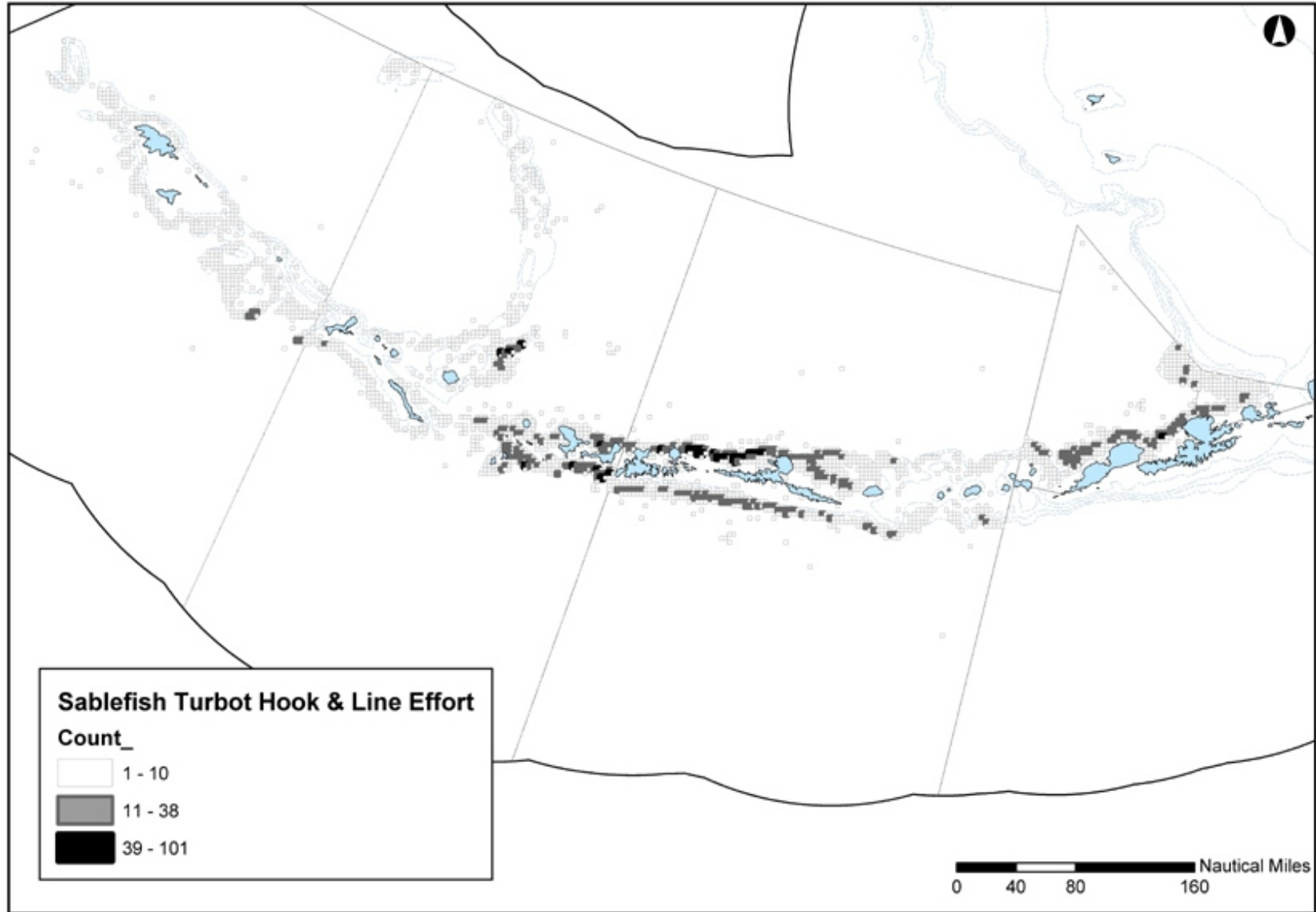
Figure 3.4-30. Bering Sea: 1990-2002 Observed Sablefish and Turbot Hook and Line Trawl Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

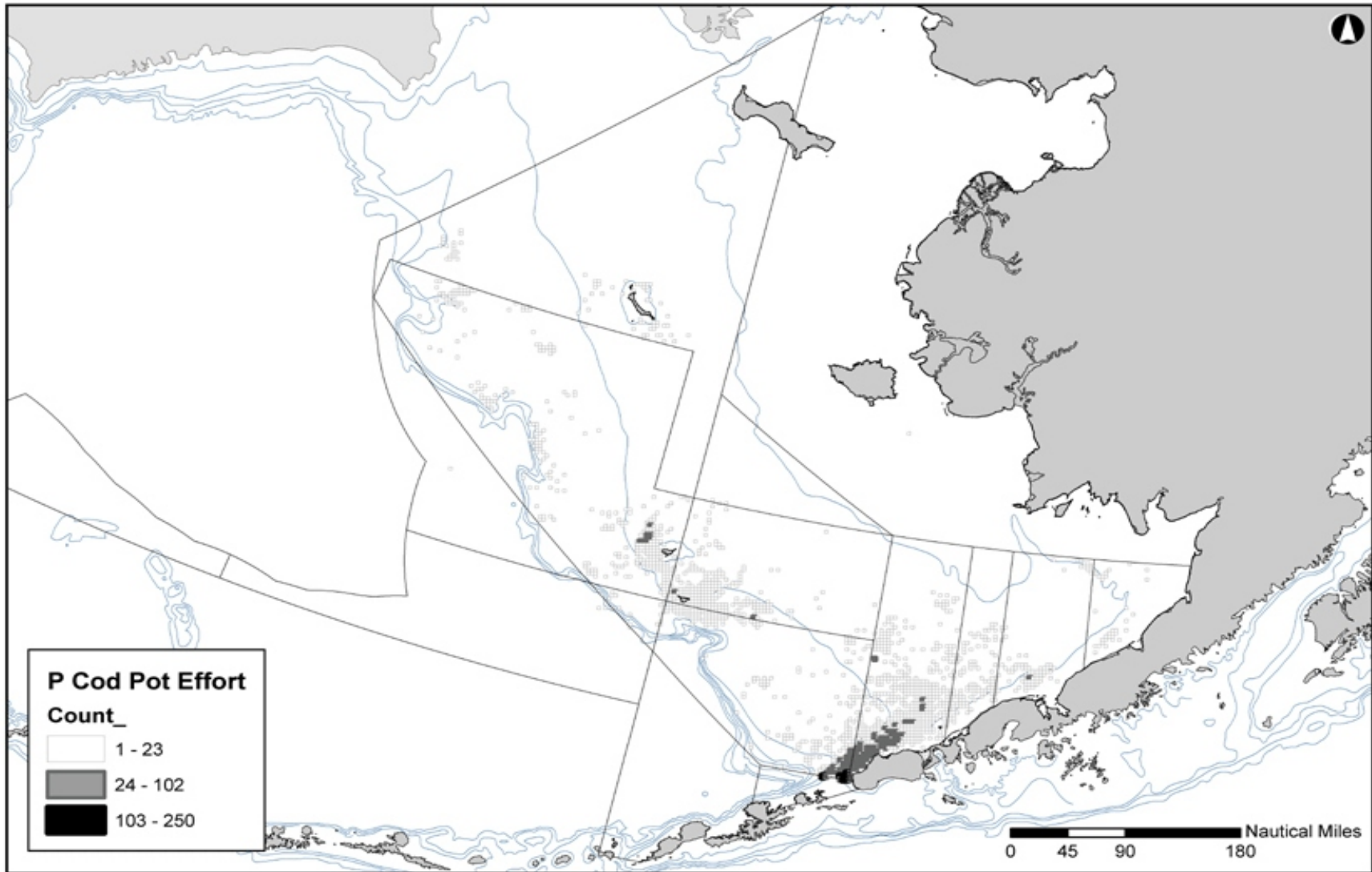
Figure 3.4-31. Aleutian Islands: 1990-2002 Observed Sablefish and Turbot Hook and Line Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

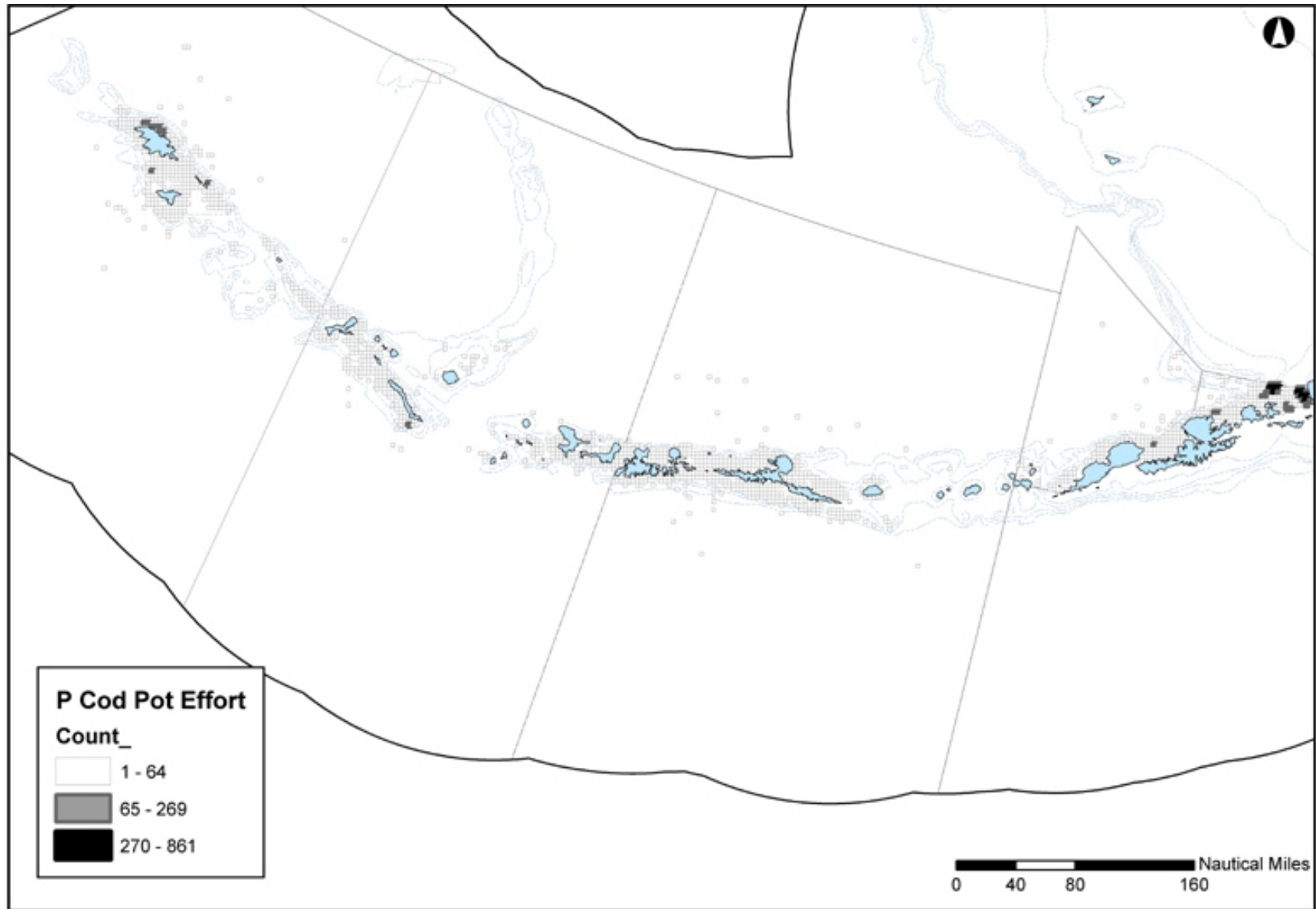
Figure 3.4-32. Bering Sea: 1990-2002 Observed Pacific Cod Pot Effort (Sets/25 km²)



Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

Figure 3.4-33. Aleutian Islands: 1990-2002 Observed Pacific Cod Pot Effort (Sets/25 km²)

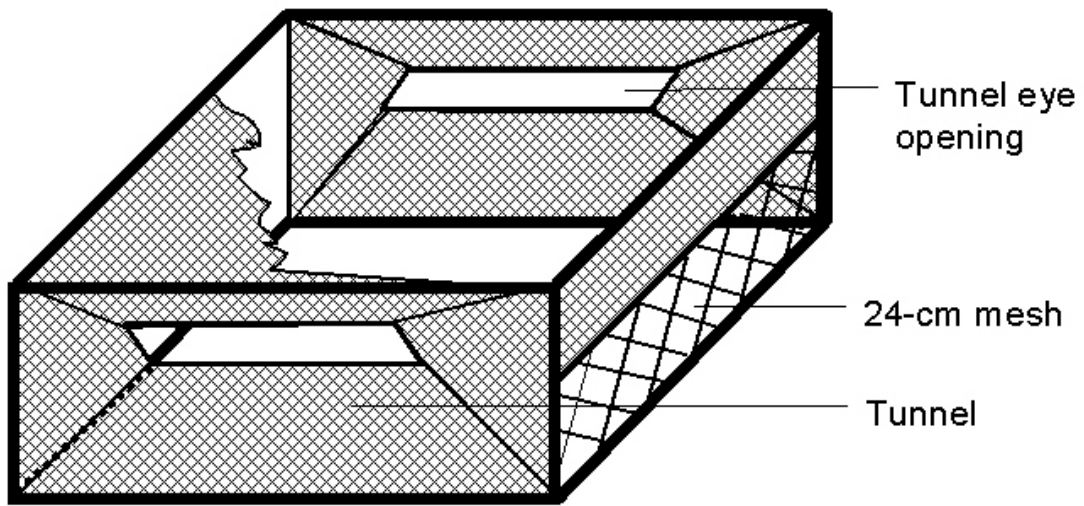


Note: (Sets/25 km²) = Summed for 1990 to 2002

Source: Cathy Coon, NPFMC Staff, North Pacific Observer Program Data

Figure 3.4-34. Crab Pot/Pacific Cod Pot

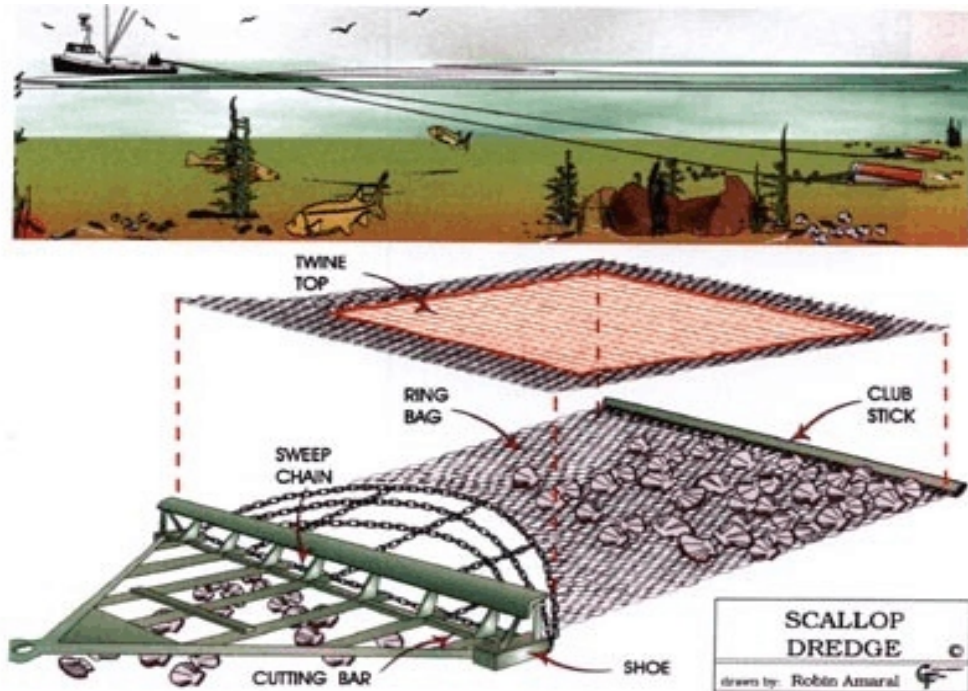
Standard pot



Source: Alaska Department of Fish and Game

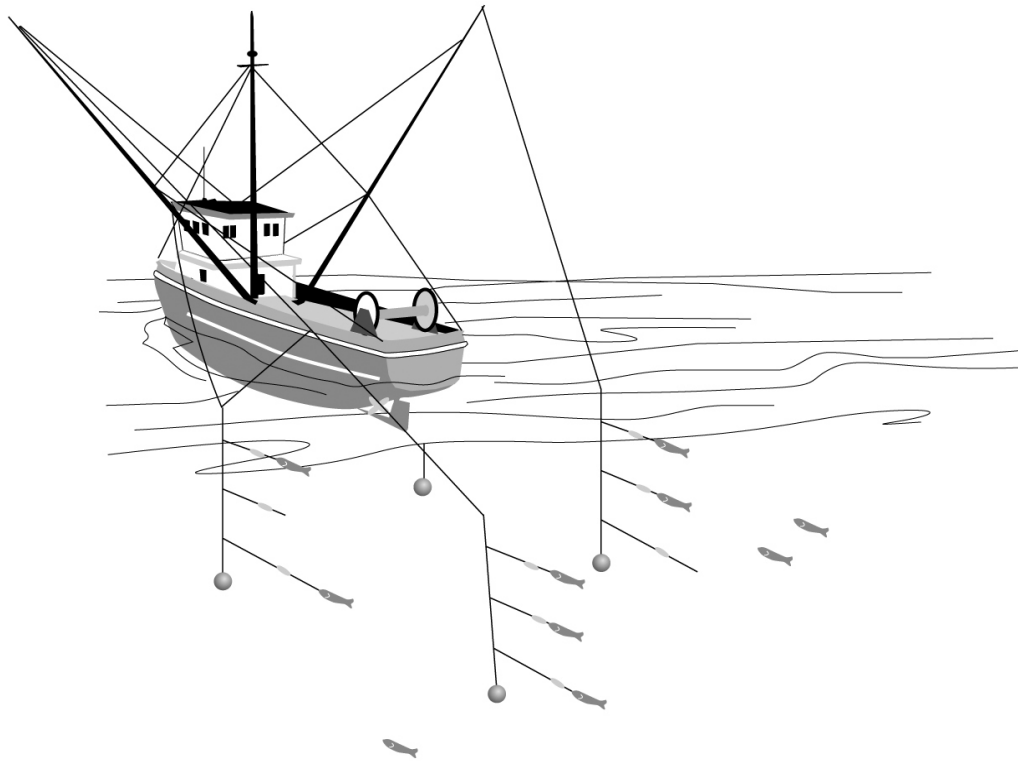
Figure 3.4-35. Scallop Dredge, The New Bedford Style

**SMOLOWITZ
FIGURE 2
(page 48)**
The New
Bedford style
scallop dredge,
with top
removed for
illustration.
Drawing by
Robin Amaral.



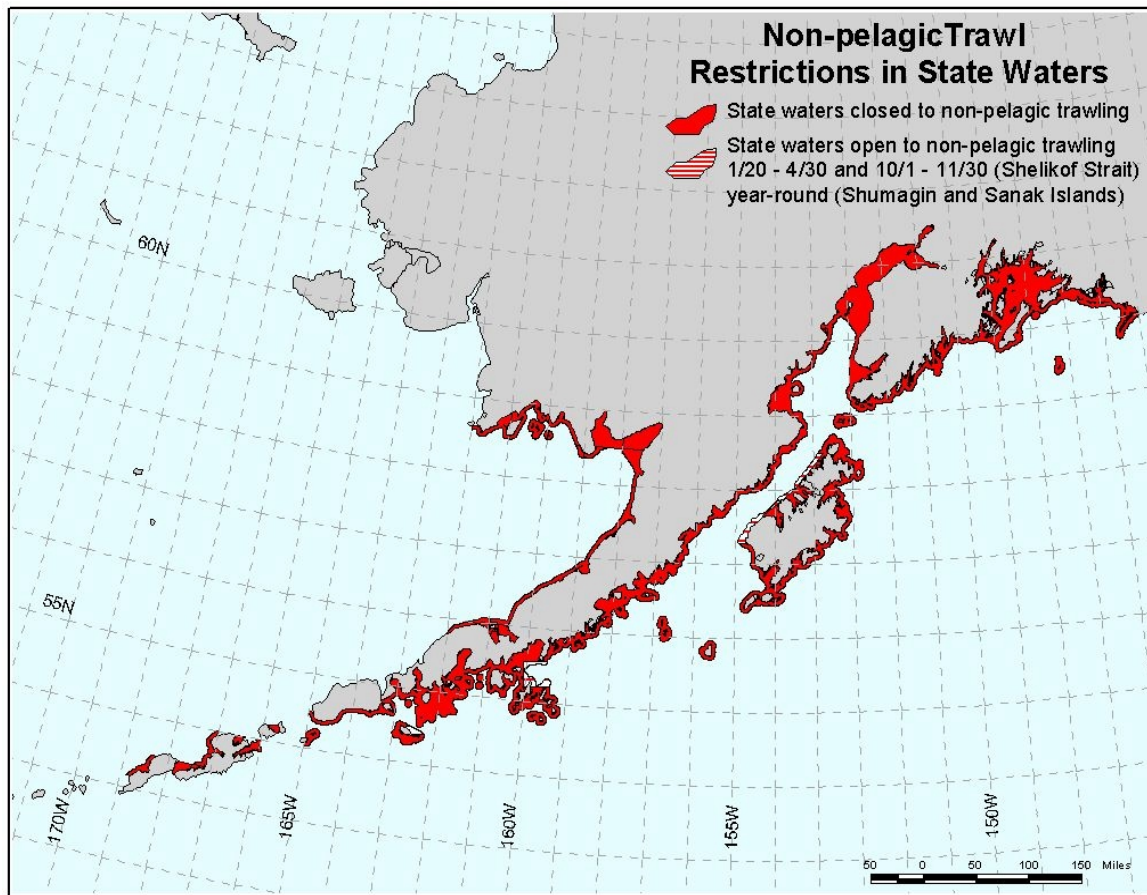
Source: Smolowitz.1998

Figure 3.4-36. Salmon Troll



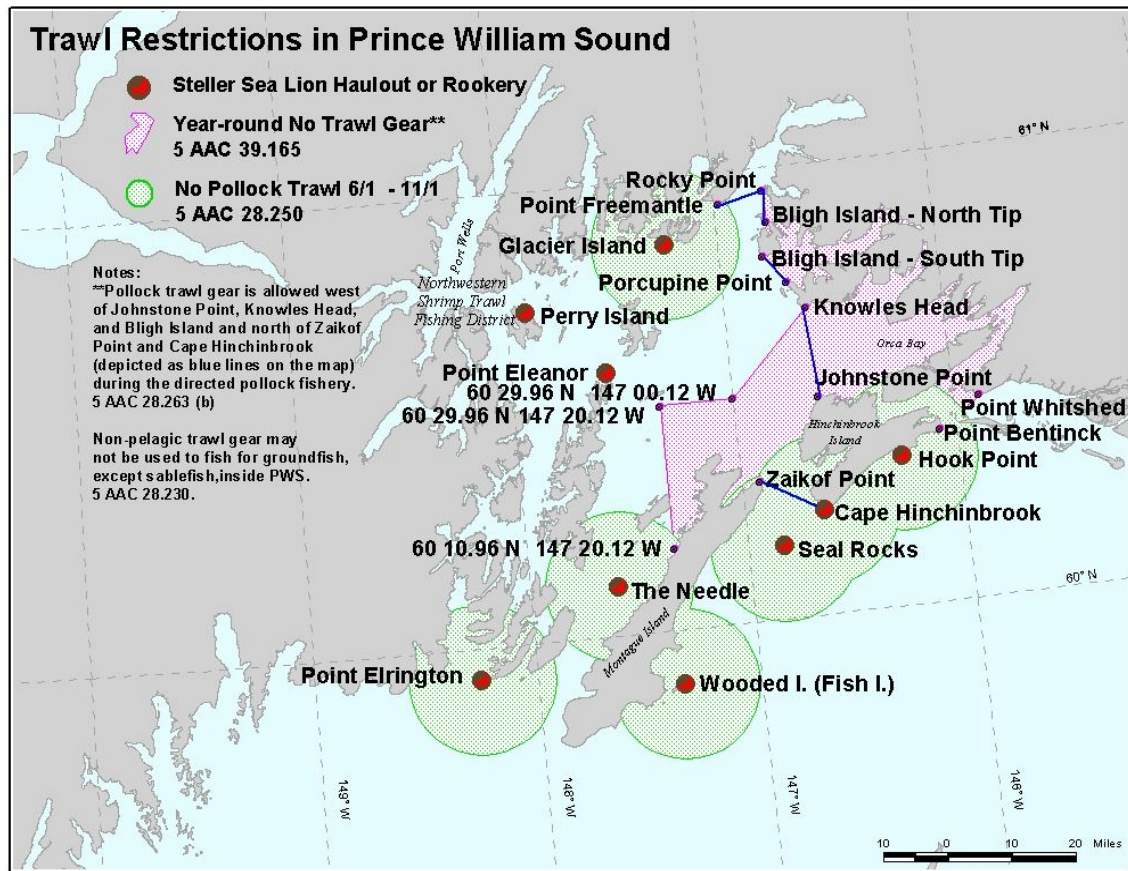
Source: K. Richards, Tetra Tech FW, Bothell, WA

Figure 3.4-37. Year-round Non-pelagic Trawl Closure Areas (shaded areas) in State Waters of the Central and Western Gulf of Alaska and Southeastern Bering Sea



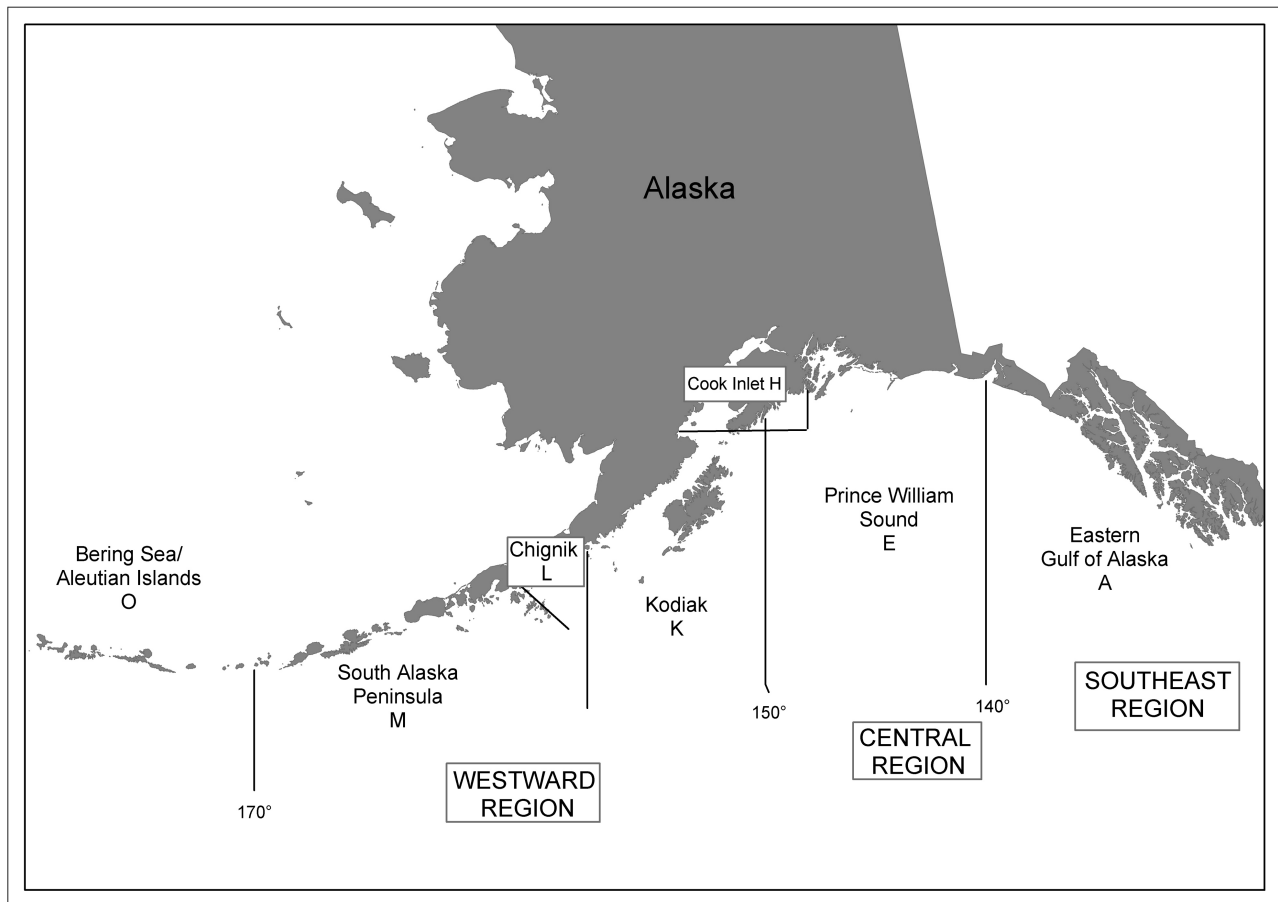
Source: NMFS 2001b

Figure 3.4-38. Year-round and Seasonal Trawl Restrictions in Prince William Sound



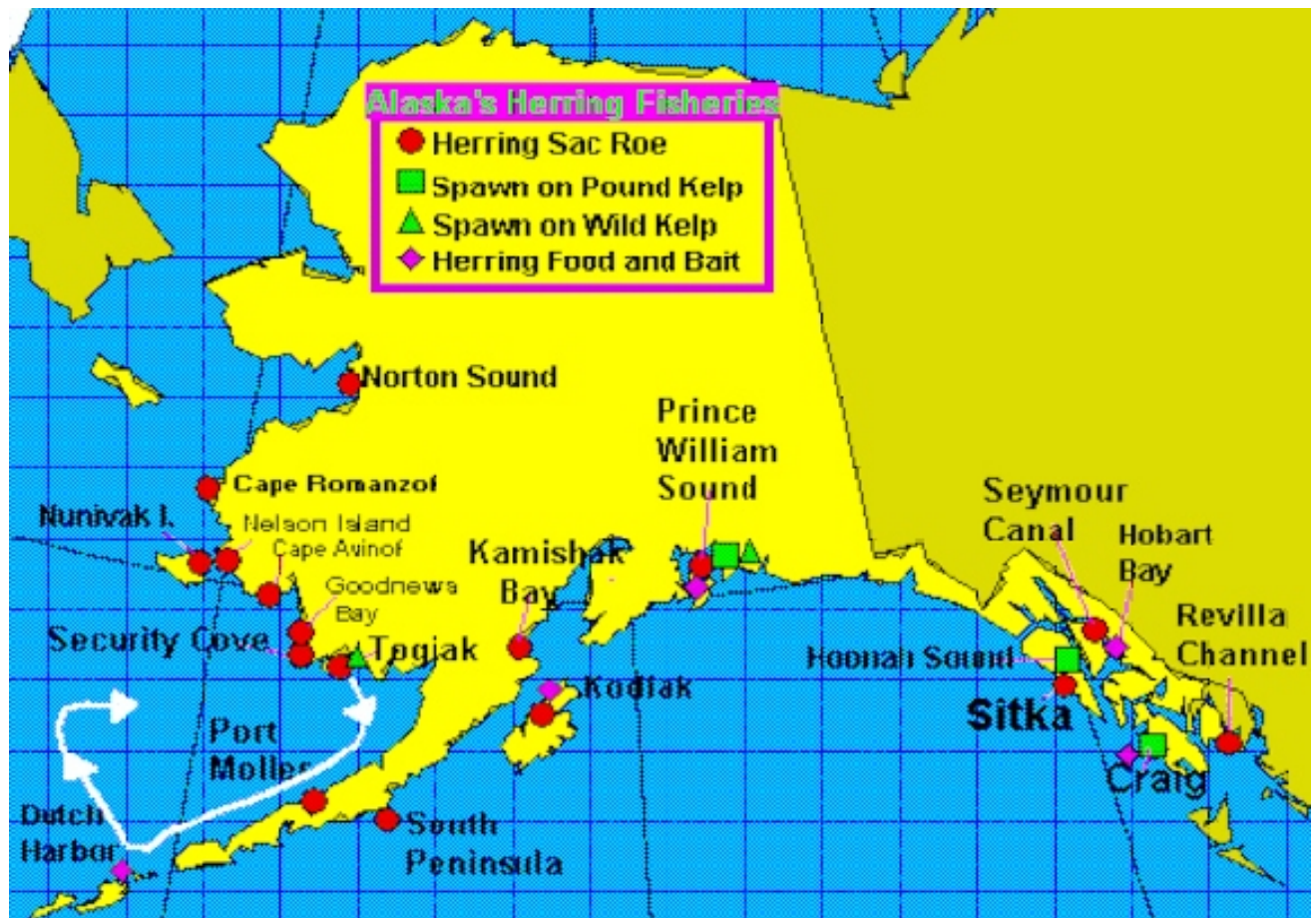
Source: NMFS 2001b

Figure 3.4-39. State Groundfish Regions



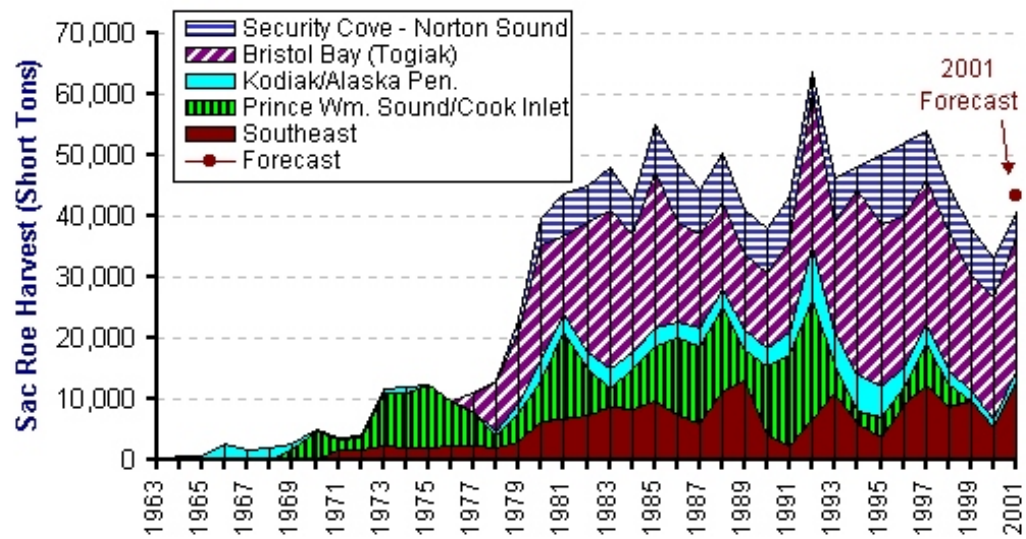
Source: ADF&G 2002c

Figure 3.4-40. Alaskan Herring Fisheries



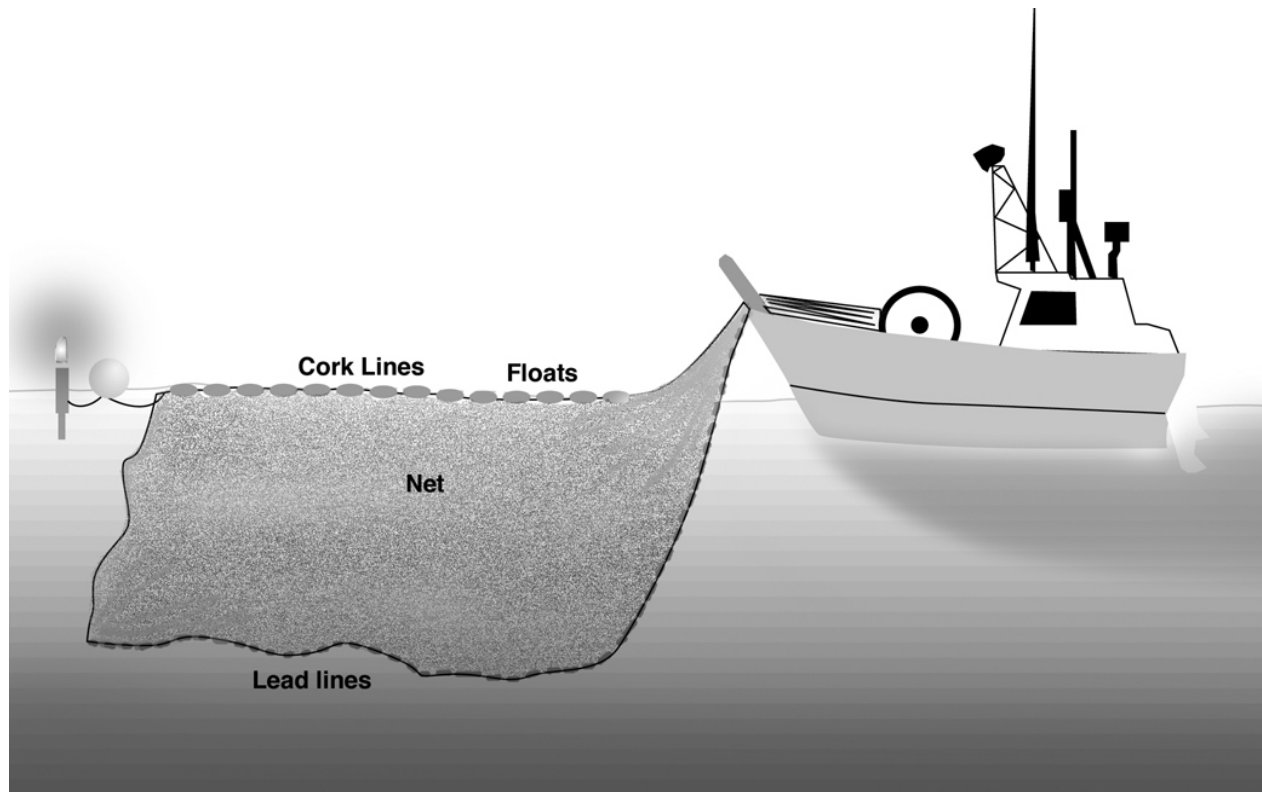
Source: ADF&G 2002a

Figure 3.4-41. Herring Sac Roe Harvests, 1963-2001



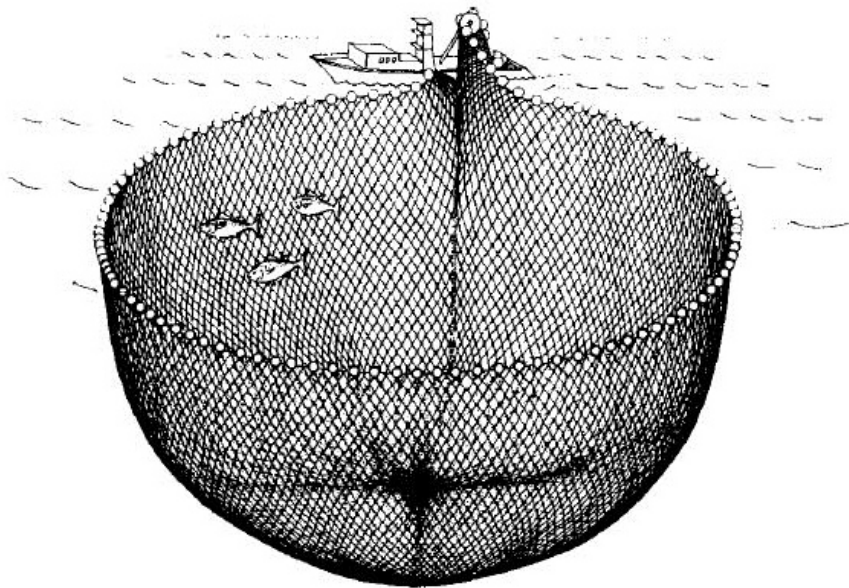
Source: ADF&G 2001

Figure 3.4-42. Drift Gillnet



Source: K. Richards, Tetra Tech FW, Bothell, WA

Figure 3.4-43. Purse Seine Gear



Source: ©Blackwell Science (Jennings et al. 2001)
Permission to use figure requested by Craig Rose (pending)

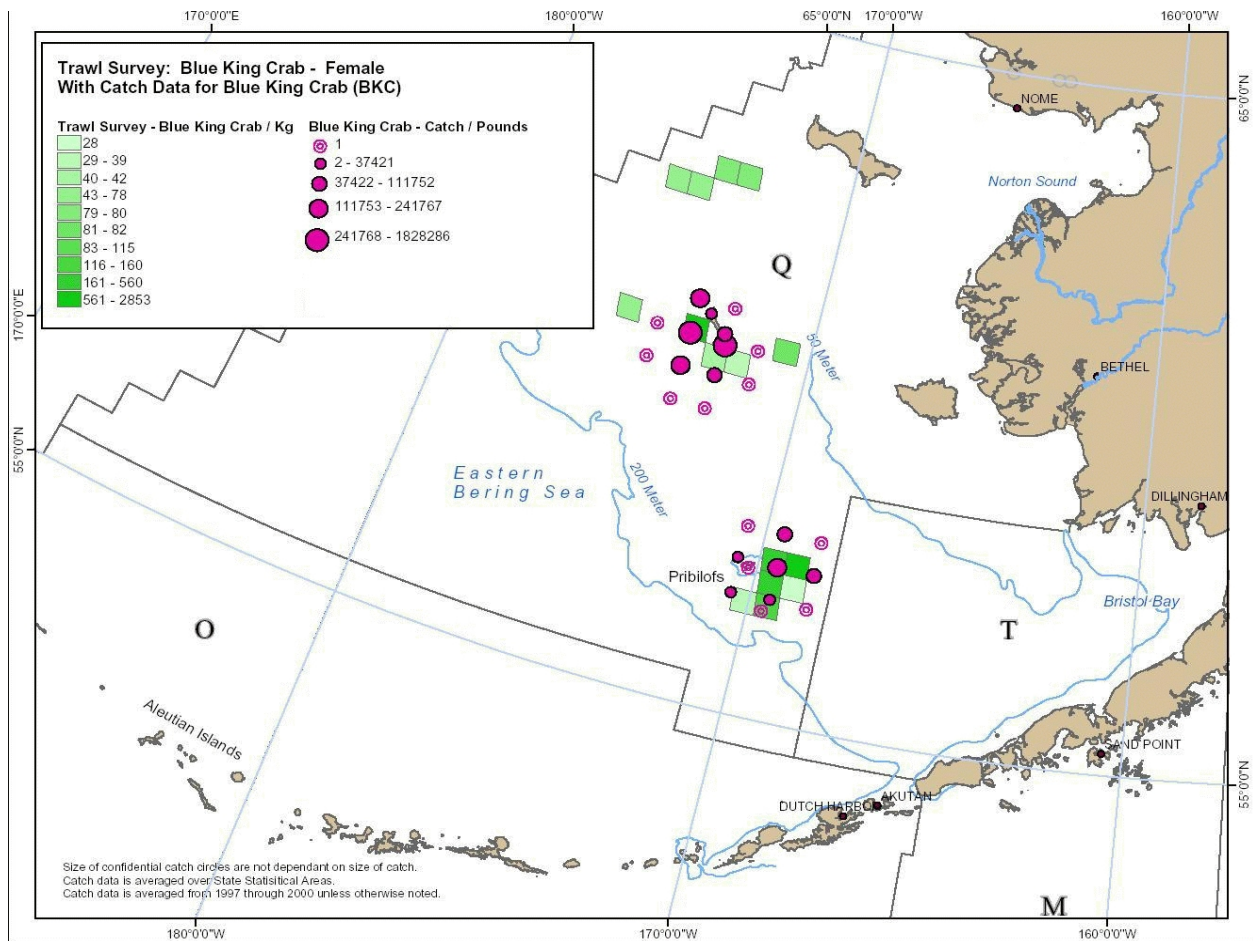


Figure 4.3-1. Blue king crab female abundance from trawl survey data and blue king crab catch data, by State of Alaska statistical area.

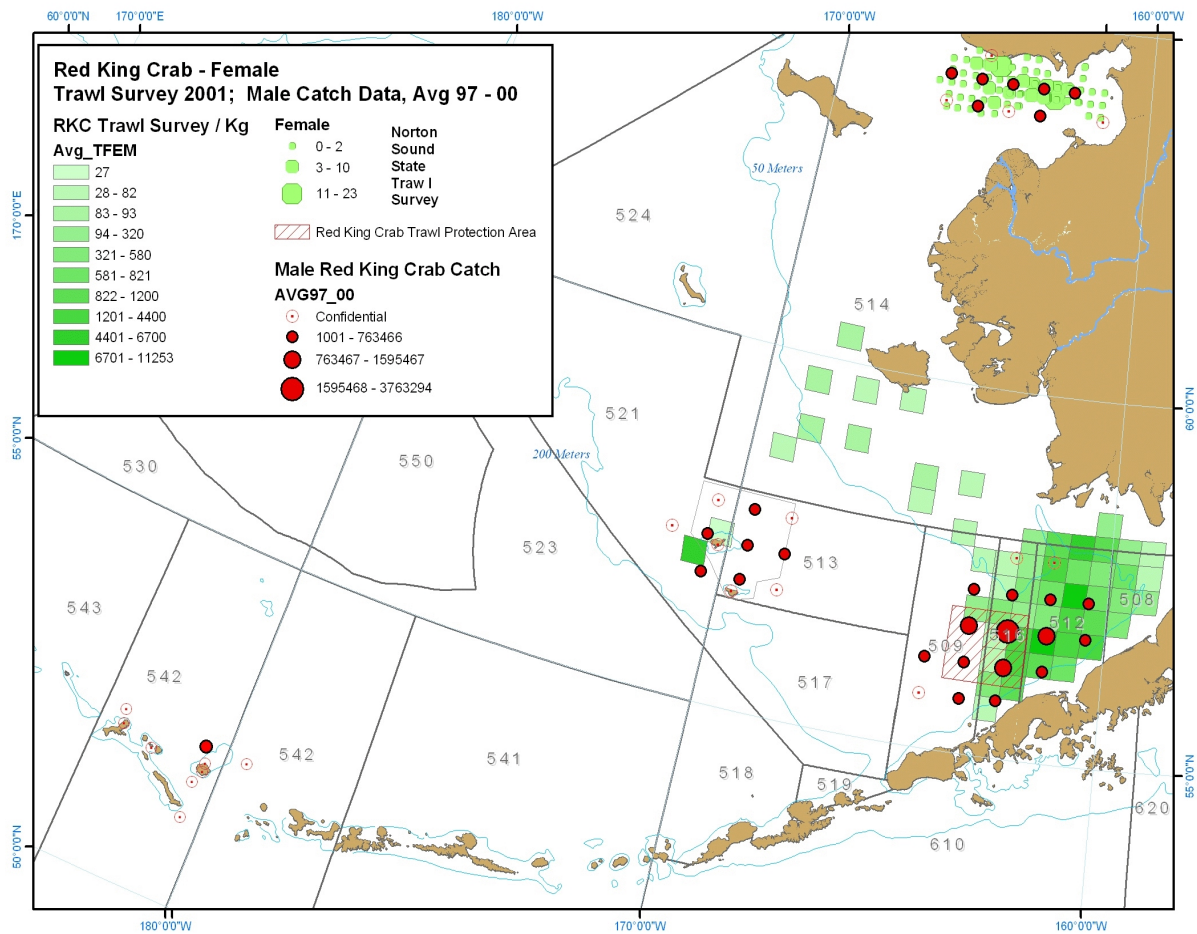


Figure 4.3-2. Red king crab female abundance from trawl survey data and red king crab catch data, by State of Alaska statistical area.

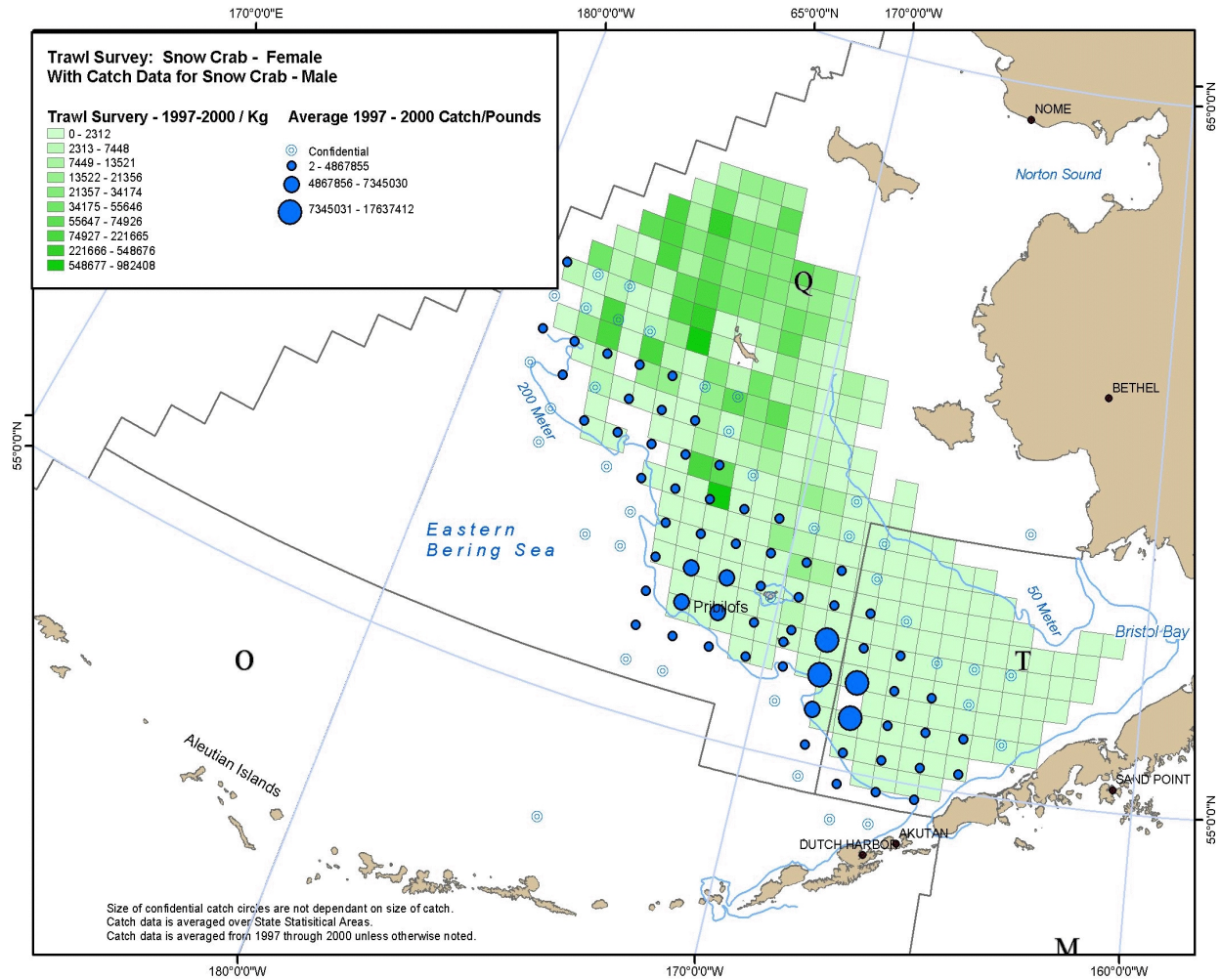


Figure 4.3-3. Snow crab female abundance from trawl survey data and snow crab catch data, by State of Alaska statistical area.

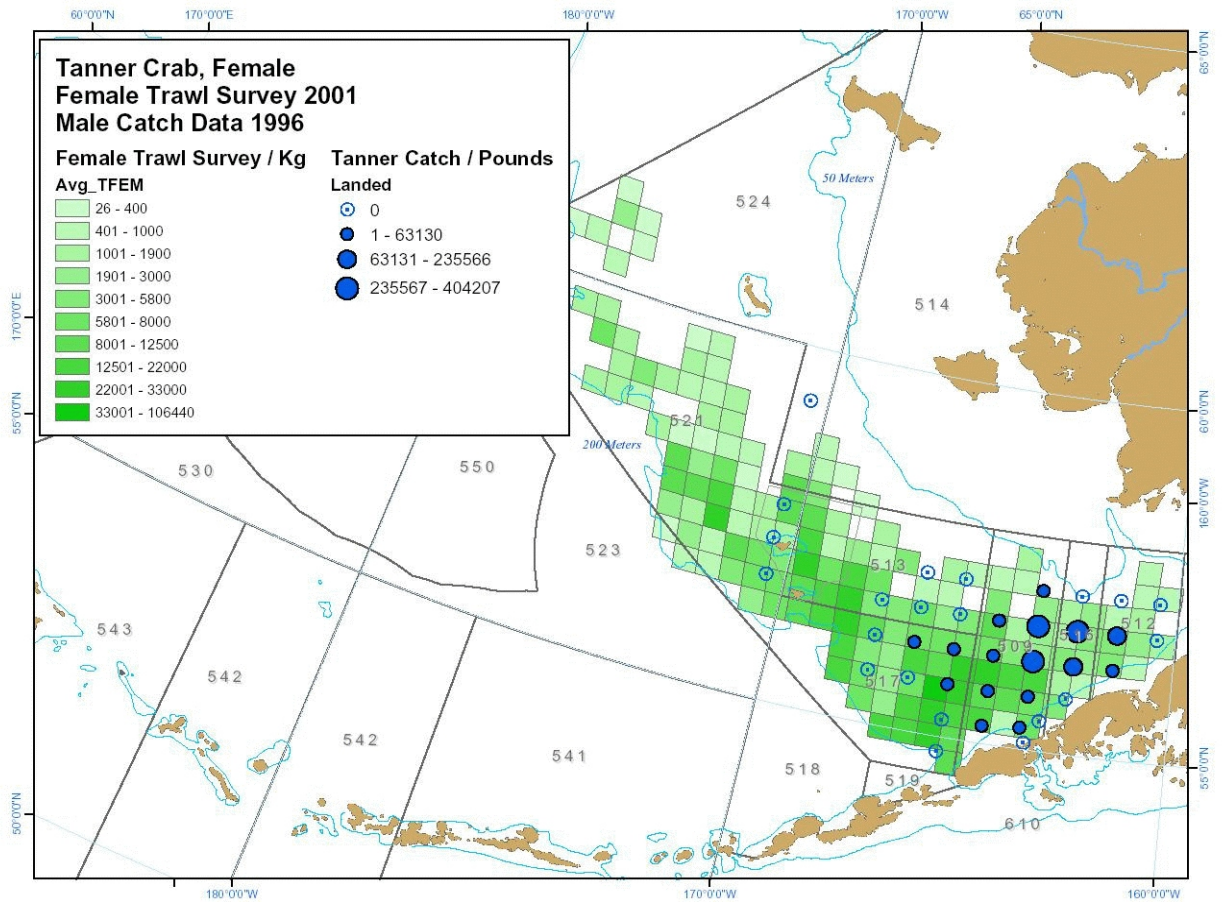


Figure 4.3-4. Tanner crab female abundance from trawl survey data and Tanner crab catch data, by State of Alaska statistical area.

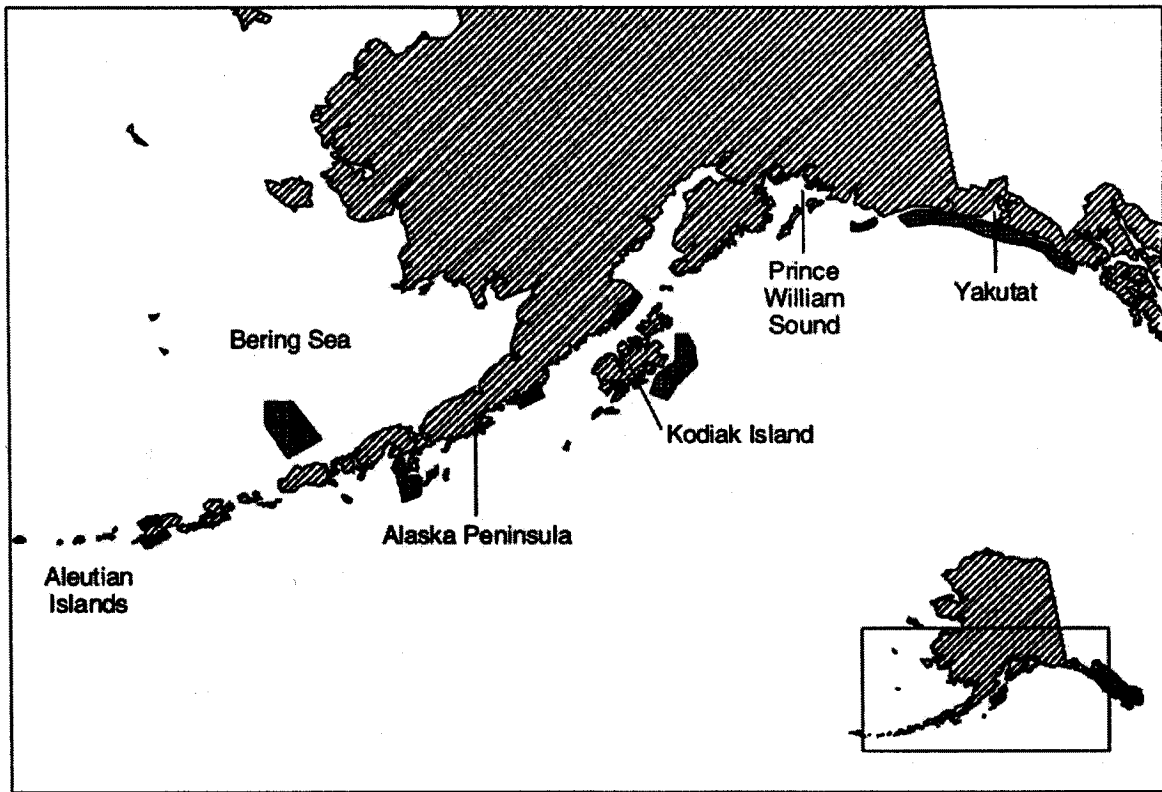


Figure 4.3-5. Locations of commercial scallop beds in Alaska.